

LITTLE RIVER PEDESTRIAN CROSSING

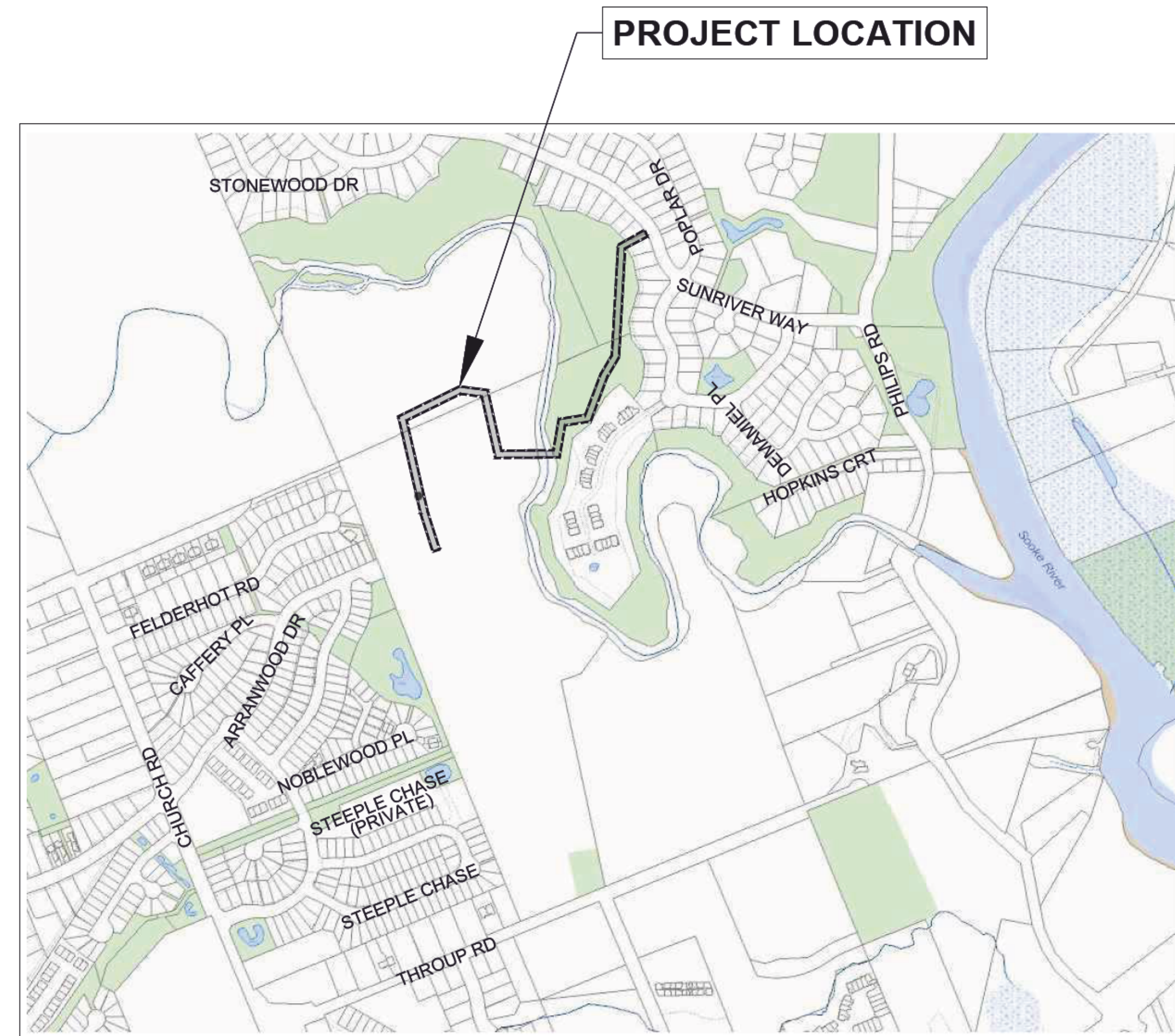
DISTRICT OF SOOKE

SOOKE, BC

ISSUED FOR TENDER

OCTOBER 2024

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LOCATION PLAN



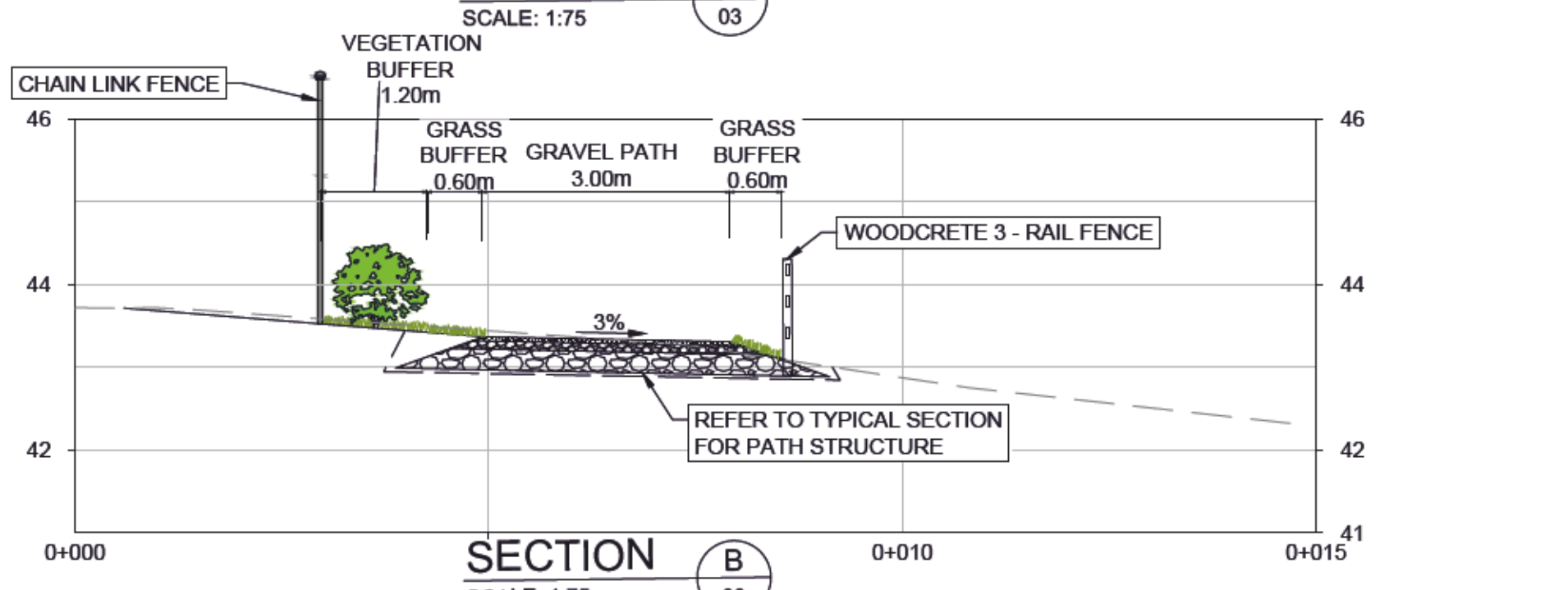
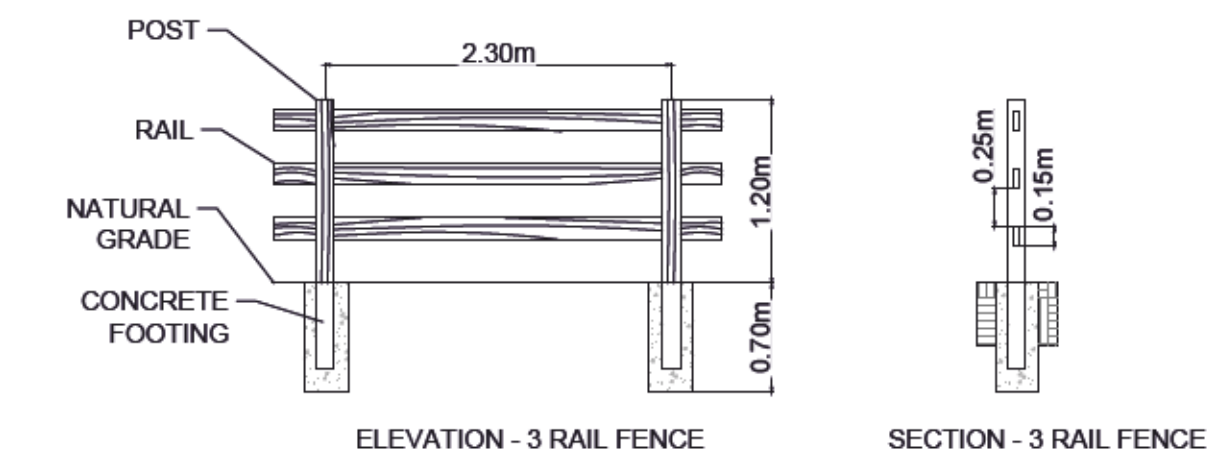
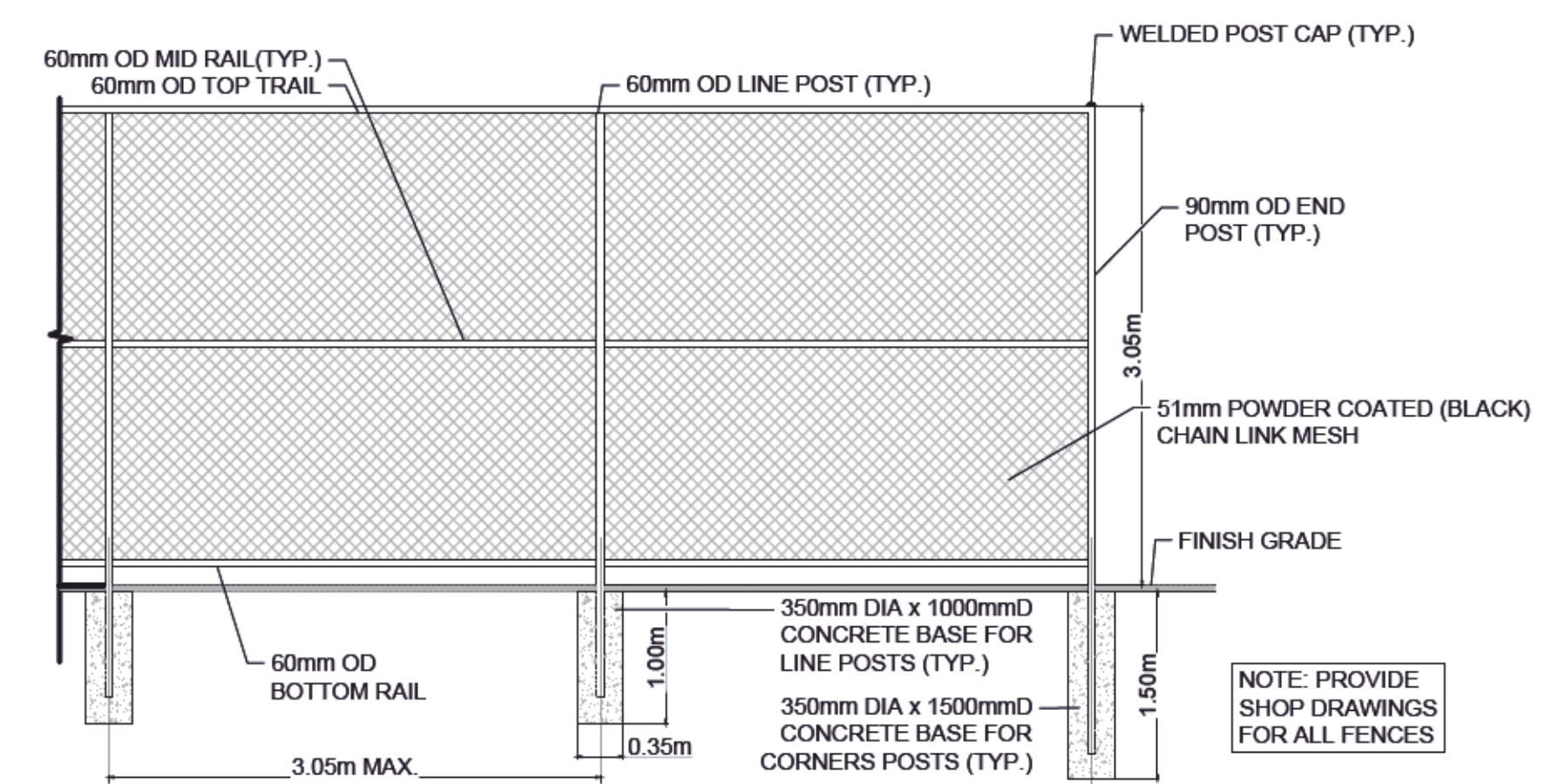
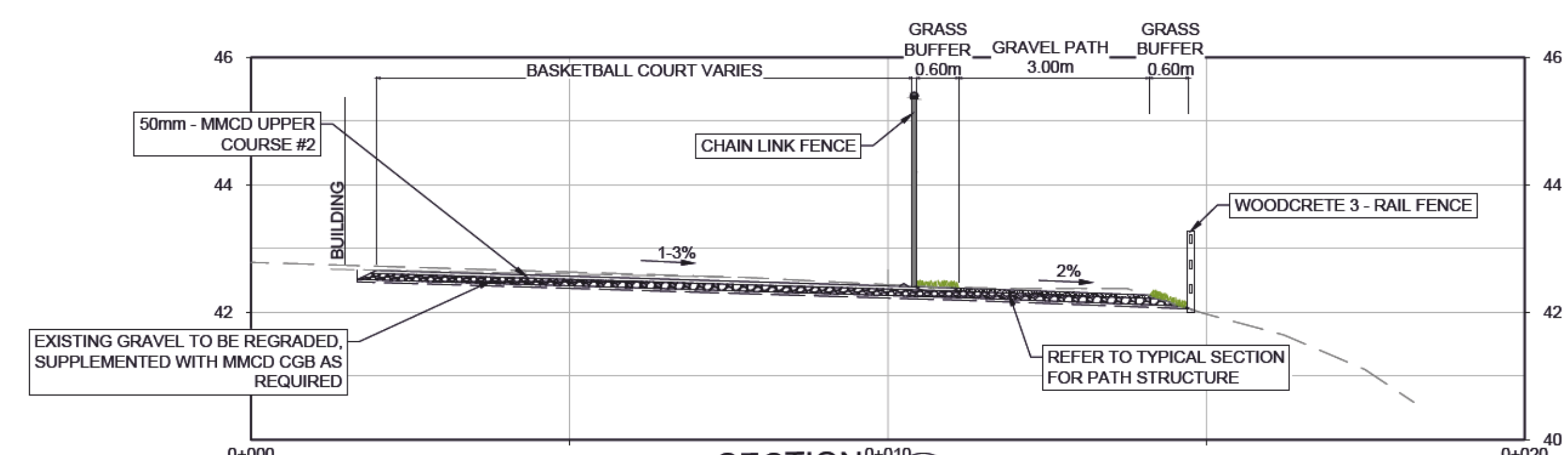
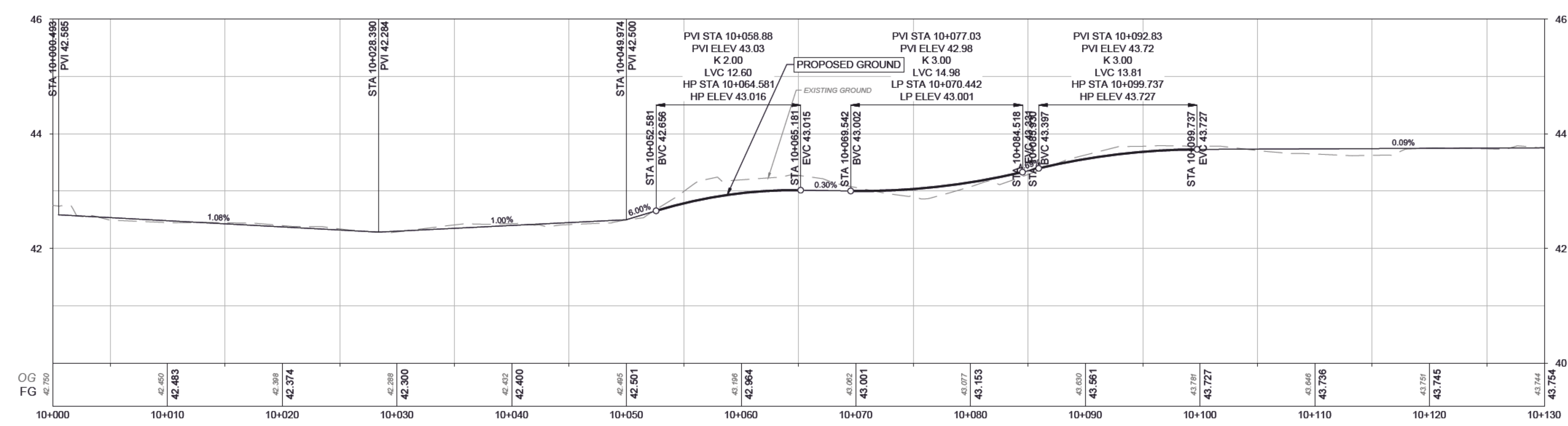
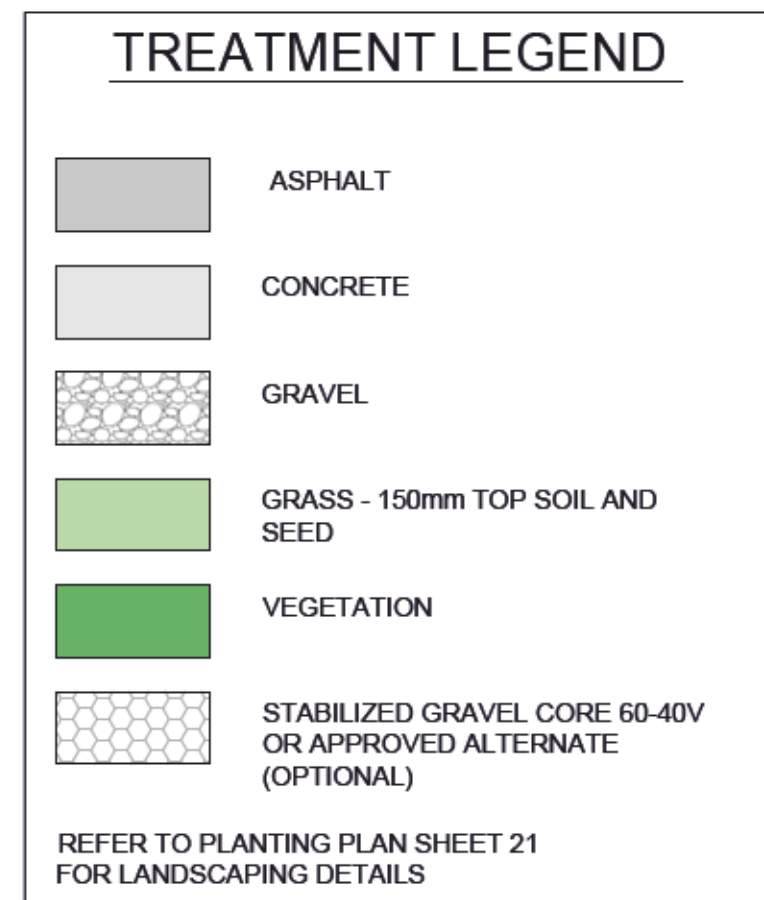
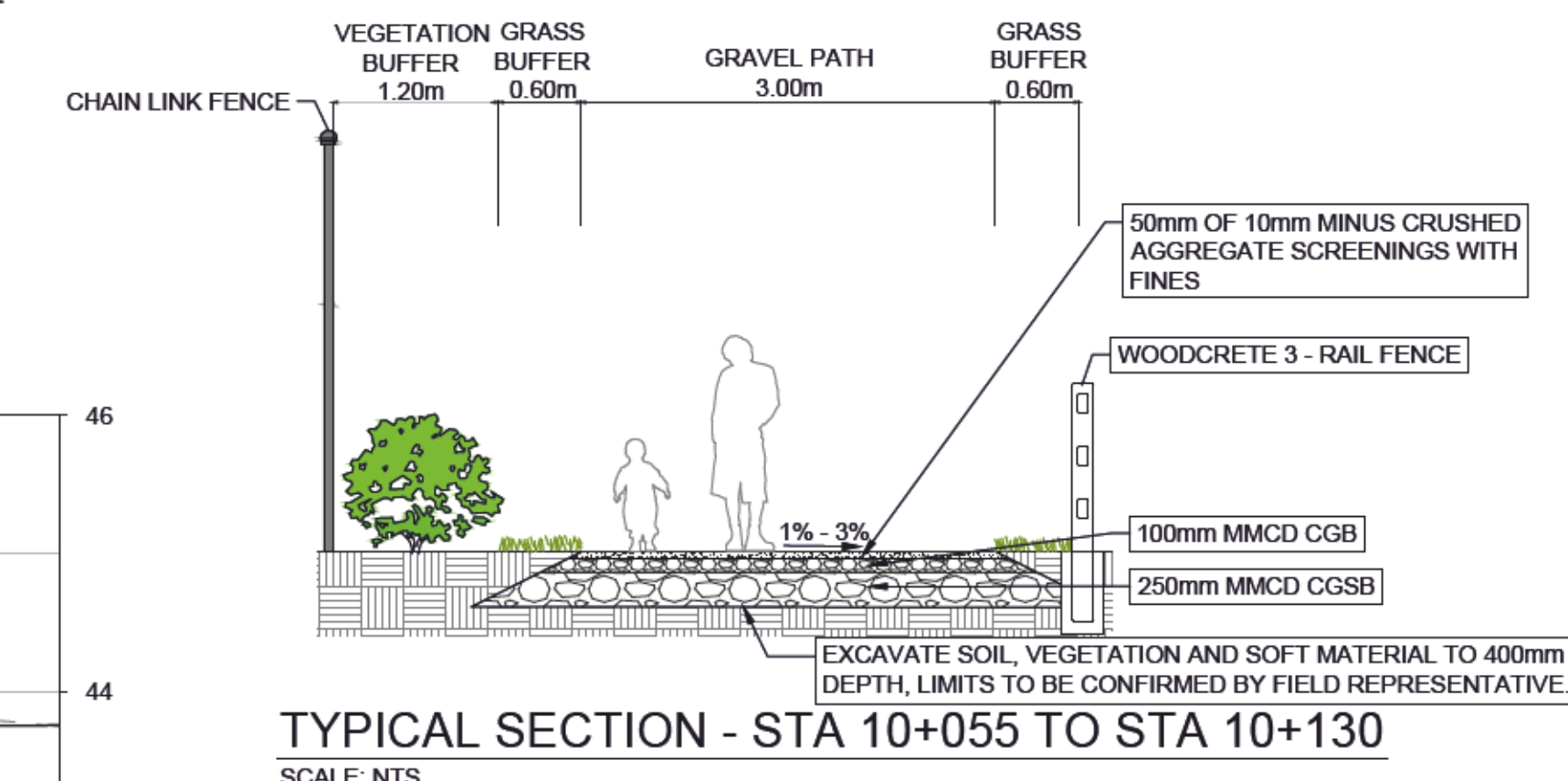
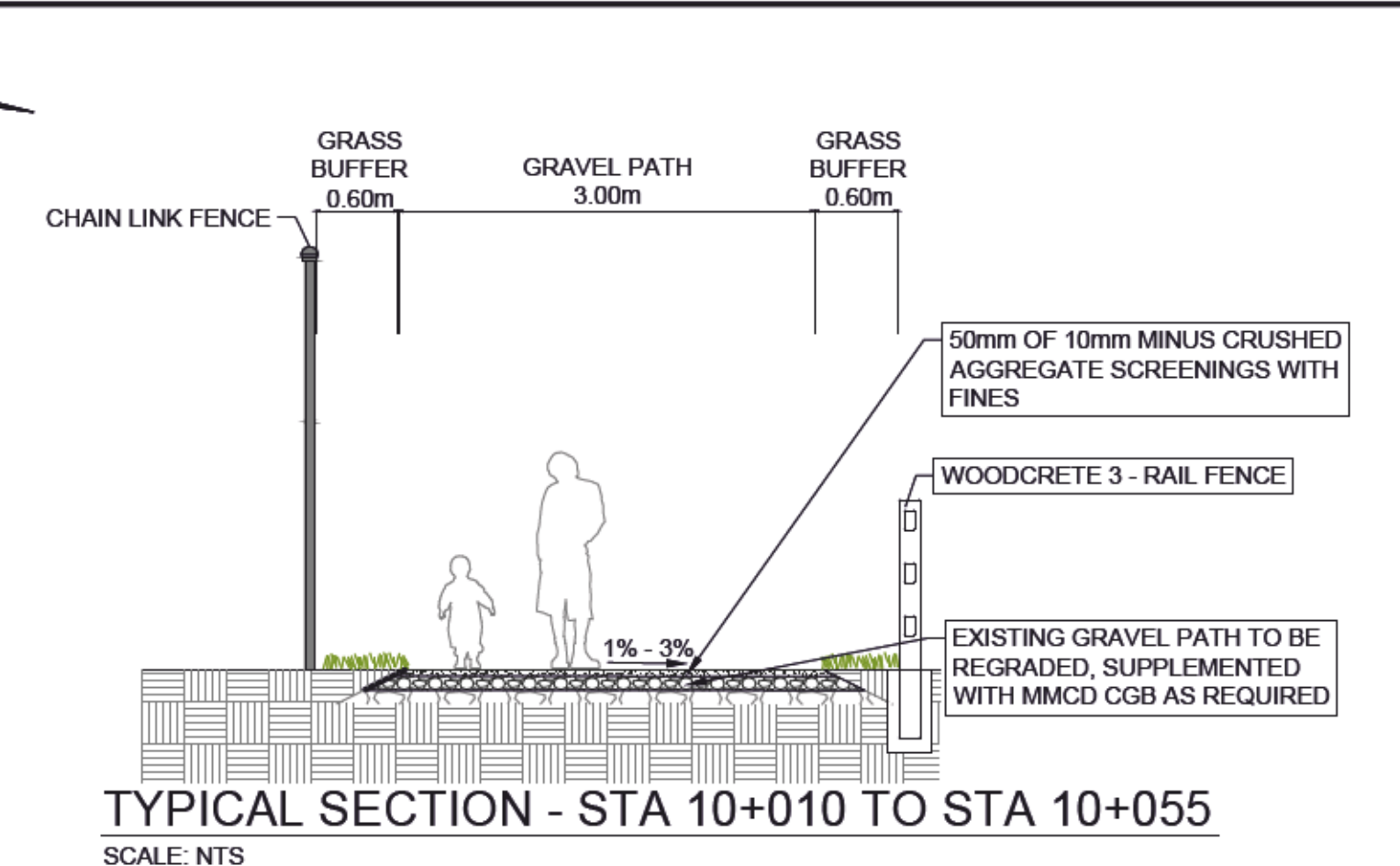
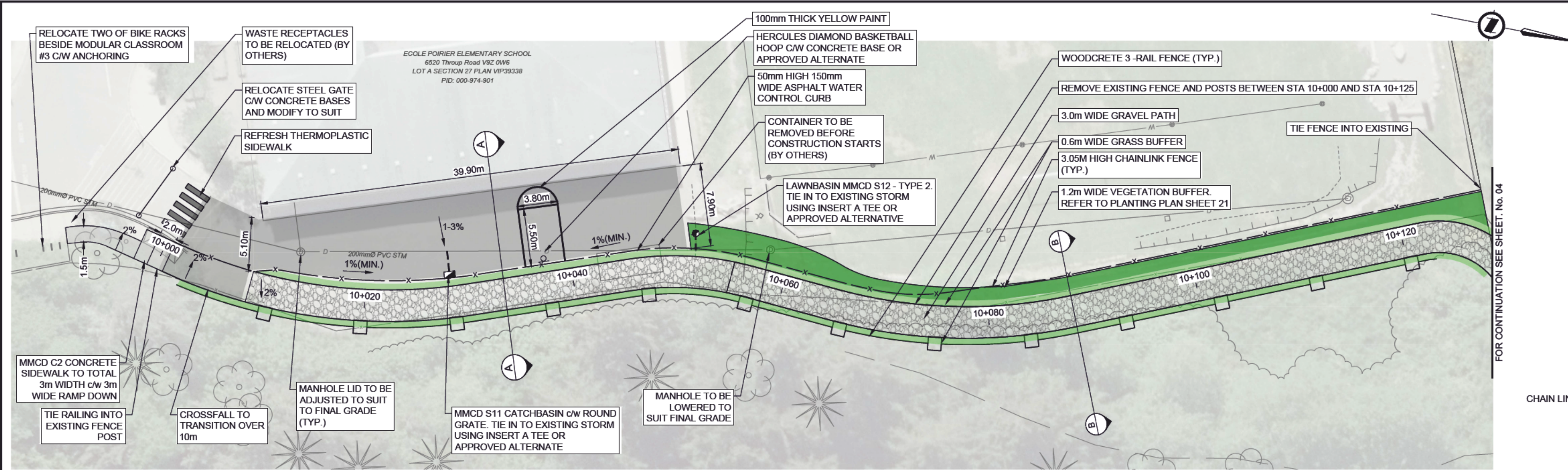
1051 Vancouver St, Victoria, BC V8V 3K3
T: (250)361-3230 F: (604)629-5756



Permit to Practice
ISL Engineering and Land Services Ltd.
RR Signature: _____
RR EGBC ID: _____
Date: _____
Permit Number 1000419
Engineers & Geoscientists British Columbia

33549

REV. E



1. FENCE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS

FILE: C:\AUSKAC\CDoc\ISL\33549_Docs_LittleRiverPed Crossing\Project Files\20_Drafting\202_Production\33549_S1H_ROADWORK.dwg

PLOT DATE: October 22, 2024

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
A	ISSUED FOR REGULATORY APPROVAL	2023.12.13	AA	IM
B	DETAILED DESIGN	2024.02.16	AA	IM
C	ISSUED FOR DISCUSSION	2024.04.08	AA	IM
D	ISSUED FOR DP	2024.05.03	KJ	IM
E	ISSUED FOR TENDER	2024.09.16	AG	IM

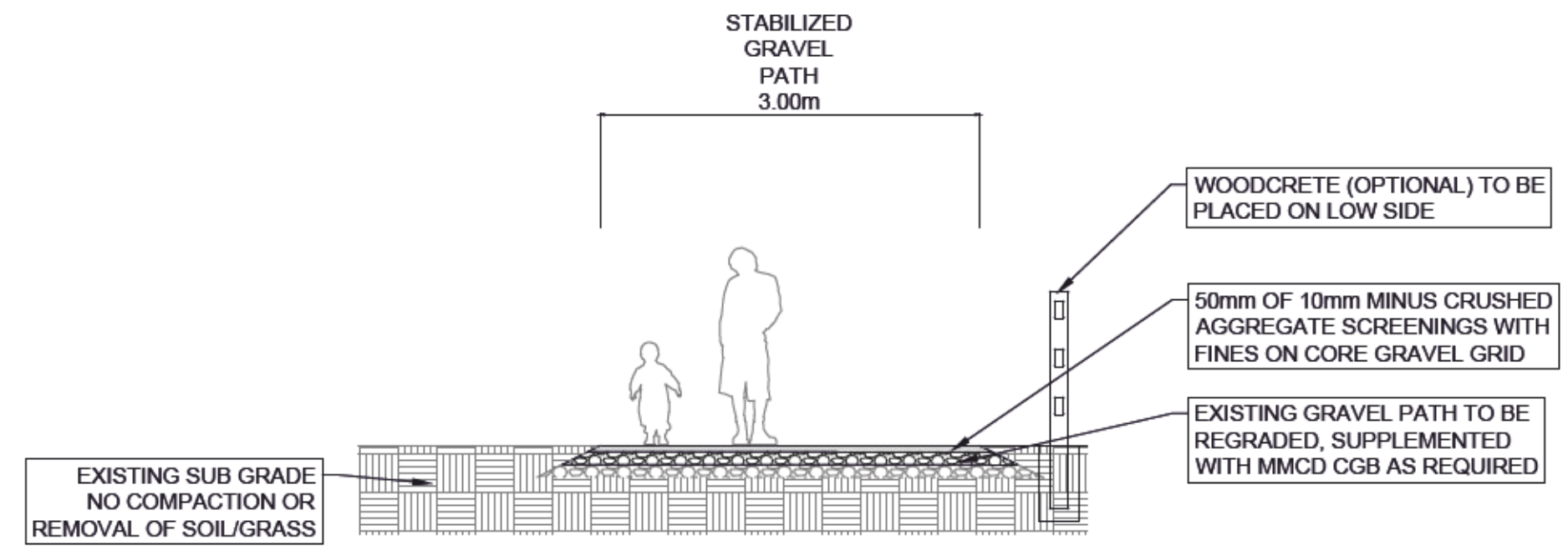
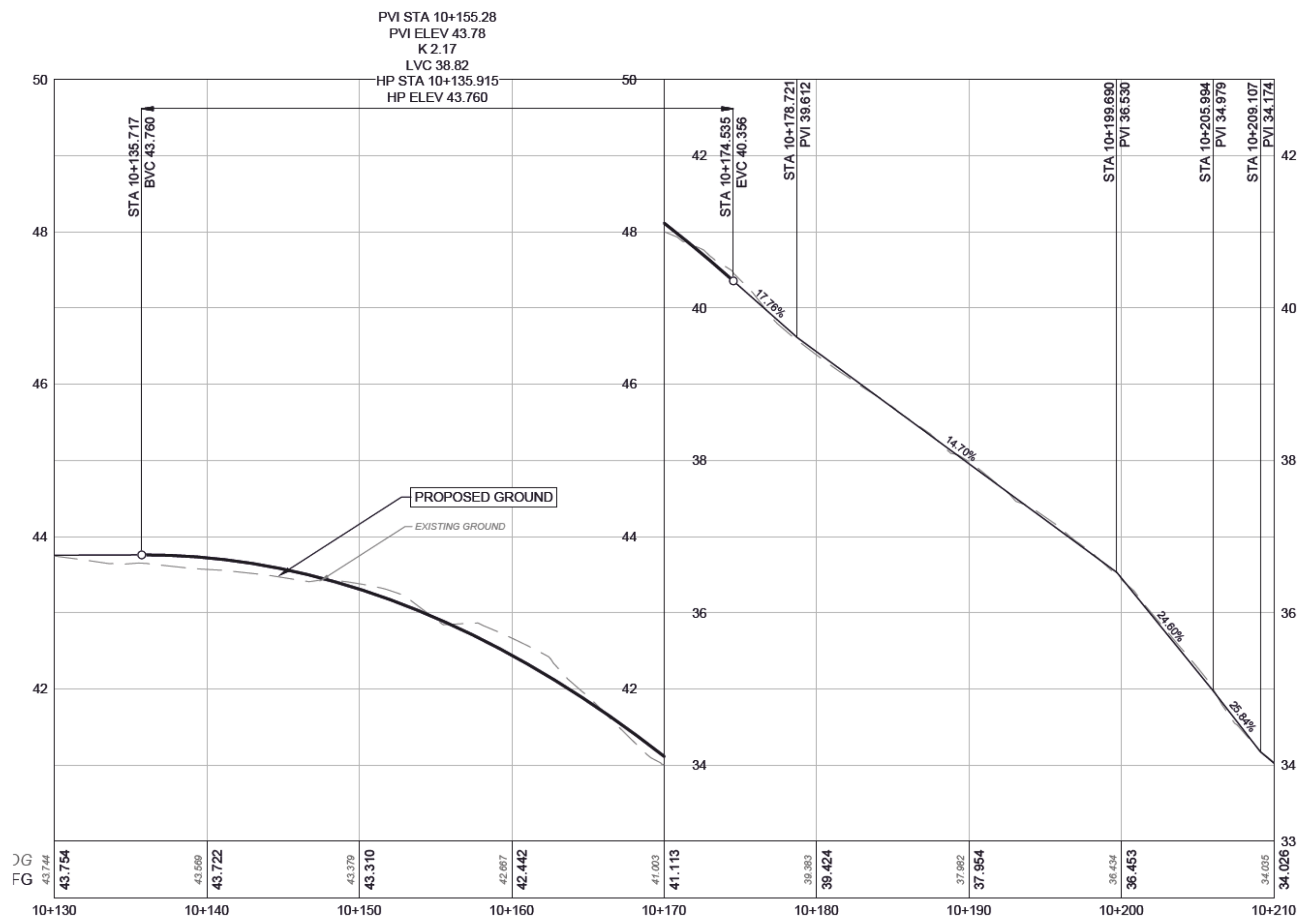
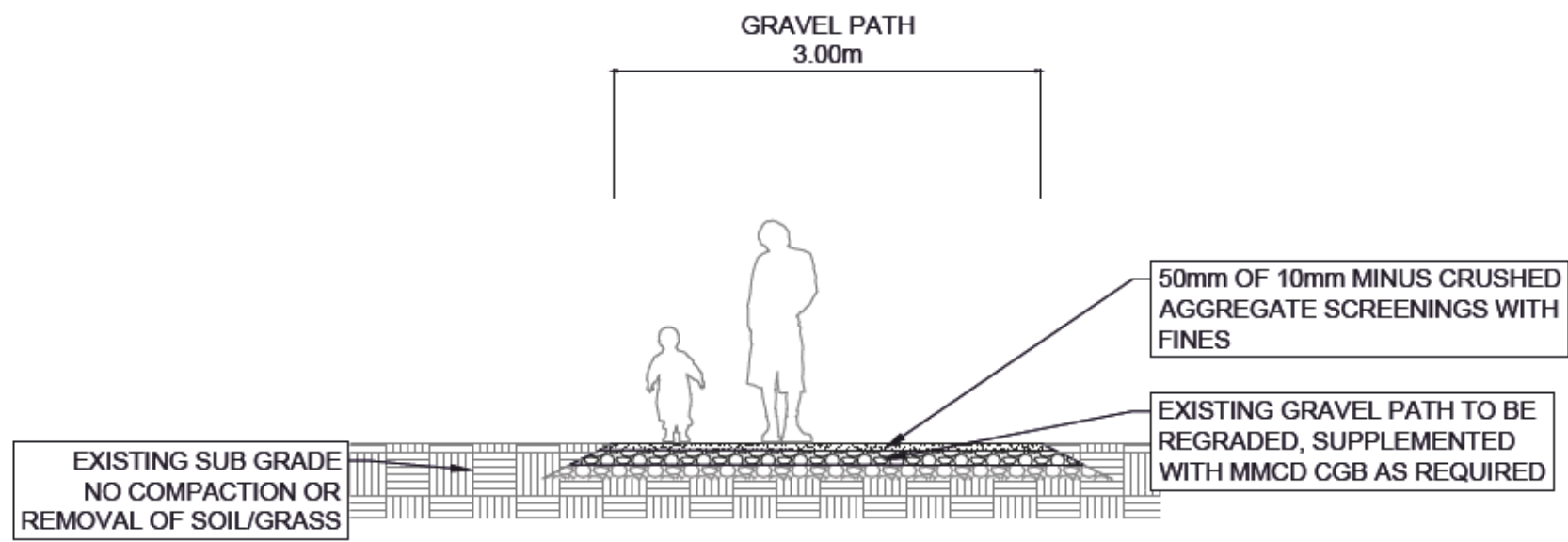
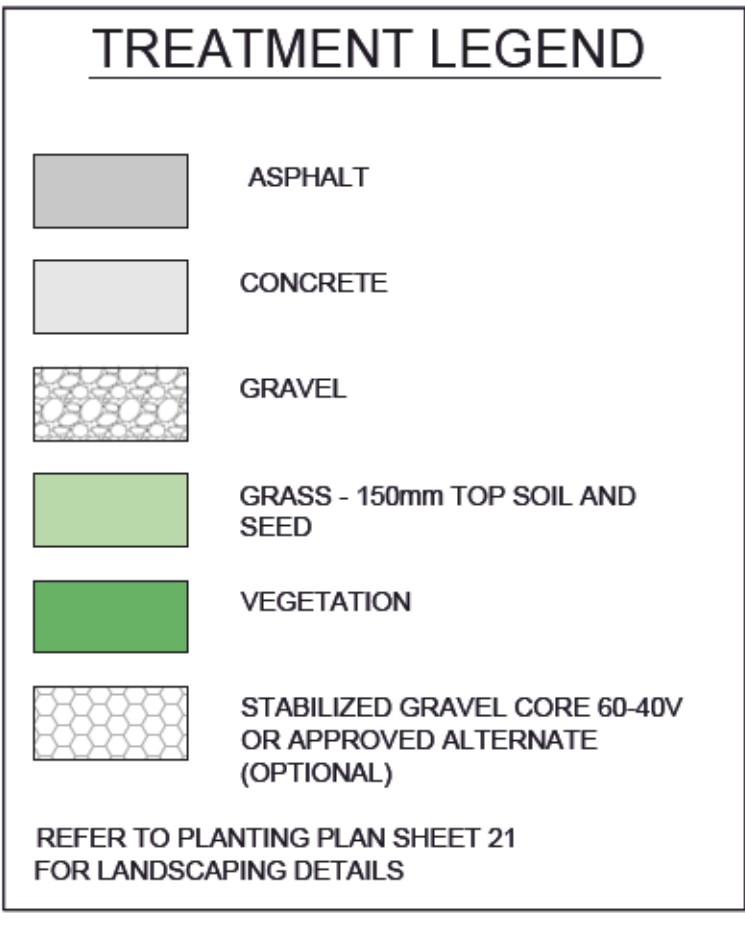
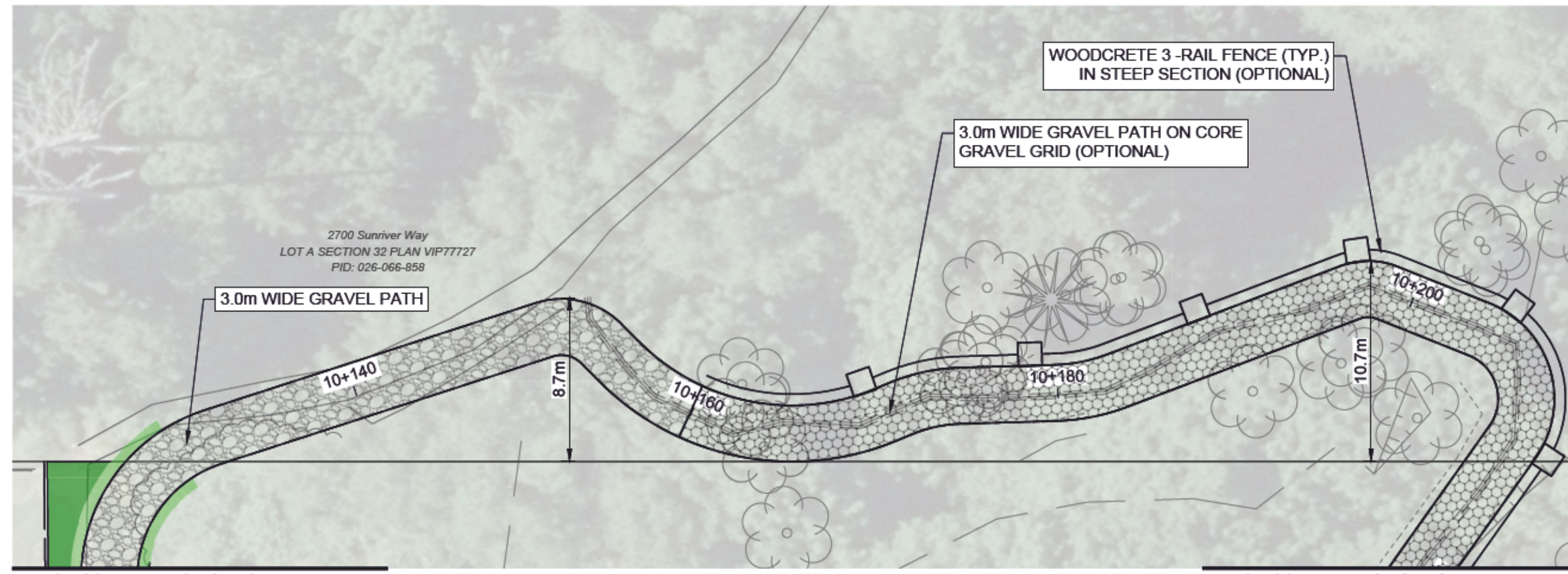
LITTLE RIVER PEDESTRIAN CROSSING
STA 10+000 TO STA 10+130



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DRAWN BY	AA	DESIGN BY	AA	OF	21
CHECKED BY	KJ	APPROVED BY	IM	REV.	E

33549

ISSUED FOR TENDER DESIGN NO.



File: C:\ADS\KACC\Docs\33549_DOS_LittleRiverPed Crossing\Project Files\20_Drafting\202_Production\33549_BH_RCAD\MORR.dwg

PLOT DATE: October 22, 2024

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E	ISSUED FOR TENDER	2024.09.16	AG	IM



LITTLE RIVER PEDESTRIAN CROSSING

STA 10+130 TO STA 10+210

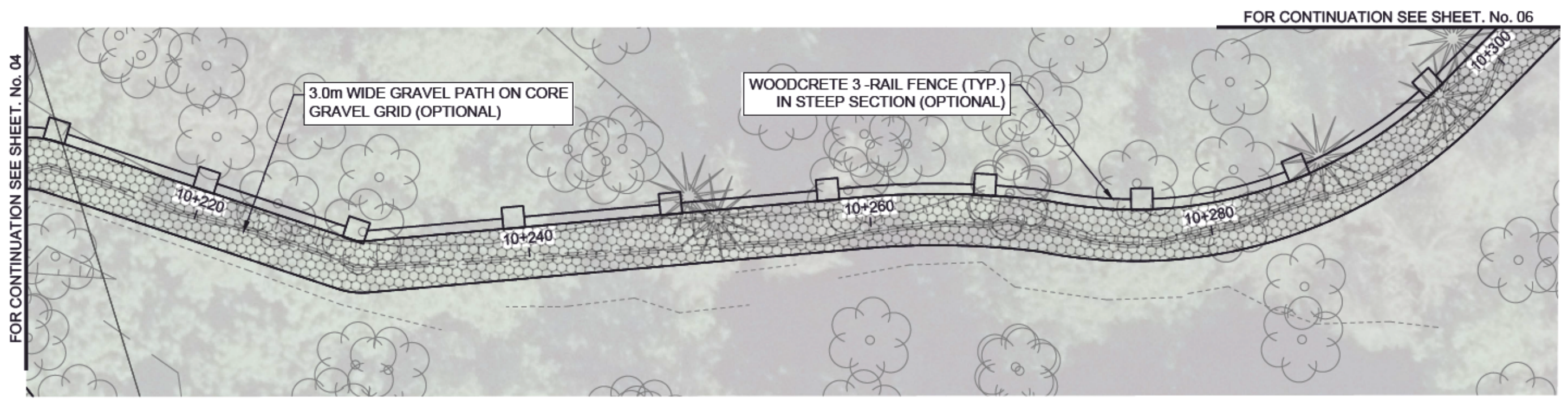


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T: (250)361-3230 F: (604)629-9756

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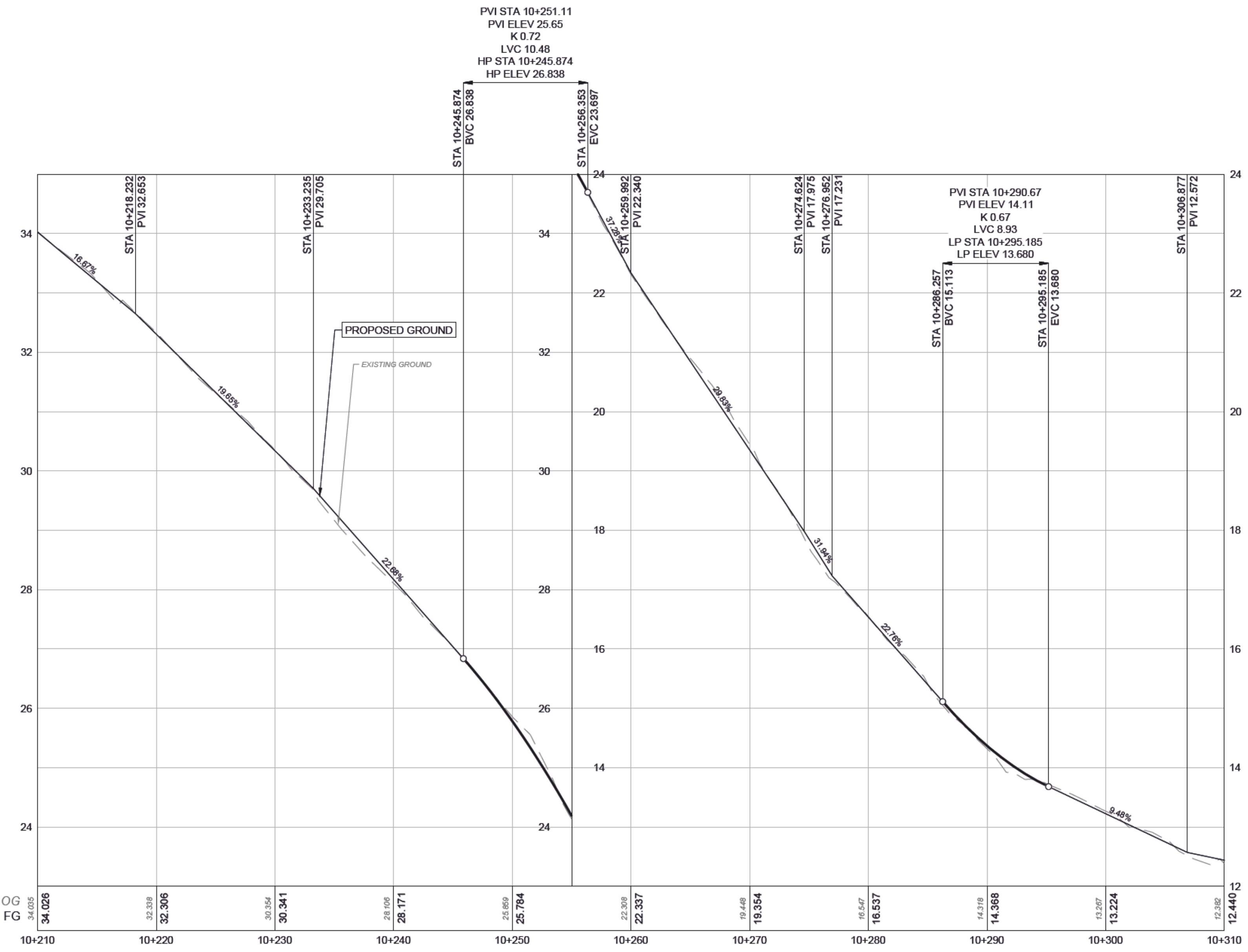
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DRAWN BY	AA	DESIGN BY	AA	04 OF 21
CHECKED BY	KJ	APPROVED BY	IM	REV. E

33549



TREATMENT LEGEND	
	ASPHALT
	CONCRETE
	GRAVEL
	GRASS - 150mm TOP SOIL AND SEED
	VEGETATION
	STABILIZED GRAVEL CORE 60-40V OR APPROVED ALTERNATE (OPTIONAL)

REFER TO PLANTING PLAN SHEET 21 FOR LANDSCAPING DETAILS



File: C:\ALSKAC\DC\ISL\33549_DOS_LittleRiverPed Crossing\Project Files\20_Drafting\202_Production\33549_SH_ROADMWORK.dwg

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E	ISSUED FOR TENDER	2024.09.16	AG	IM



LITTLE RIVER PEDESTRIAN CROSSING

STA 10+210 TO STA 10+310



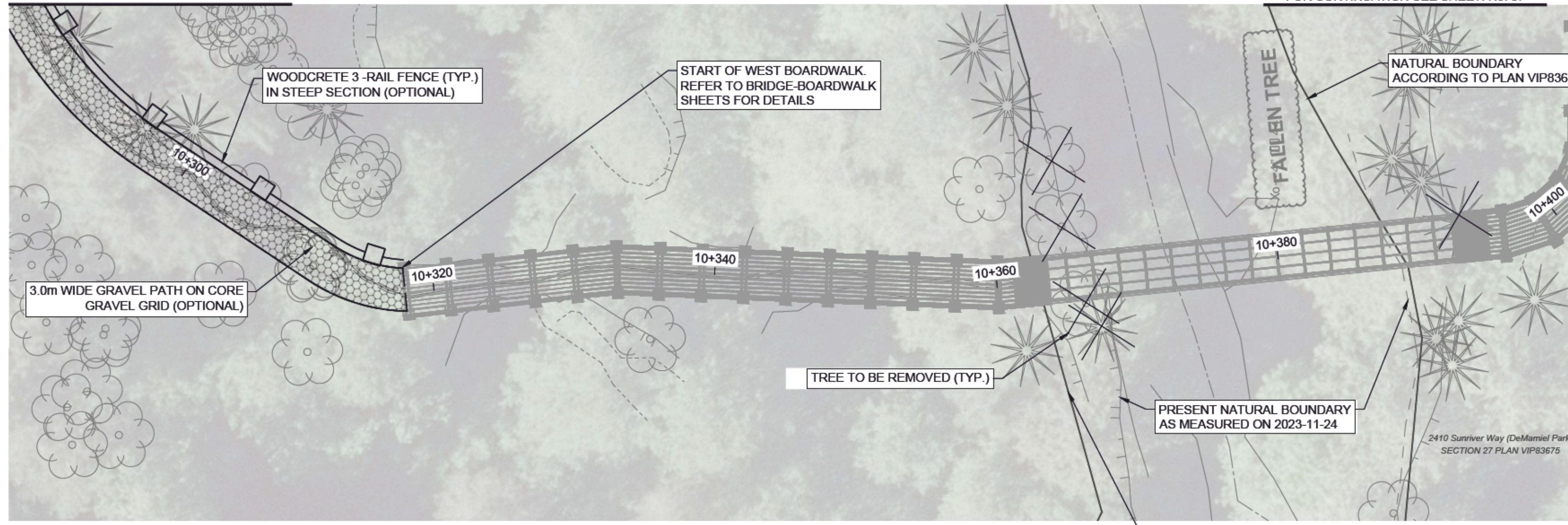
ISSUED FOR TENDER DESIGN NO.

33549

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				REV. E

FOR CONTINUATION SEE SHEET No. 05

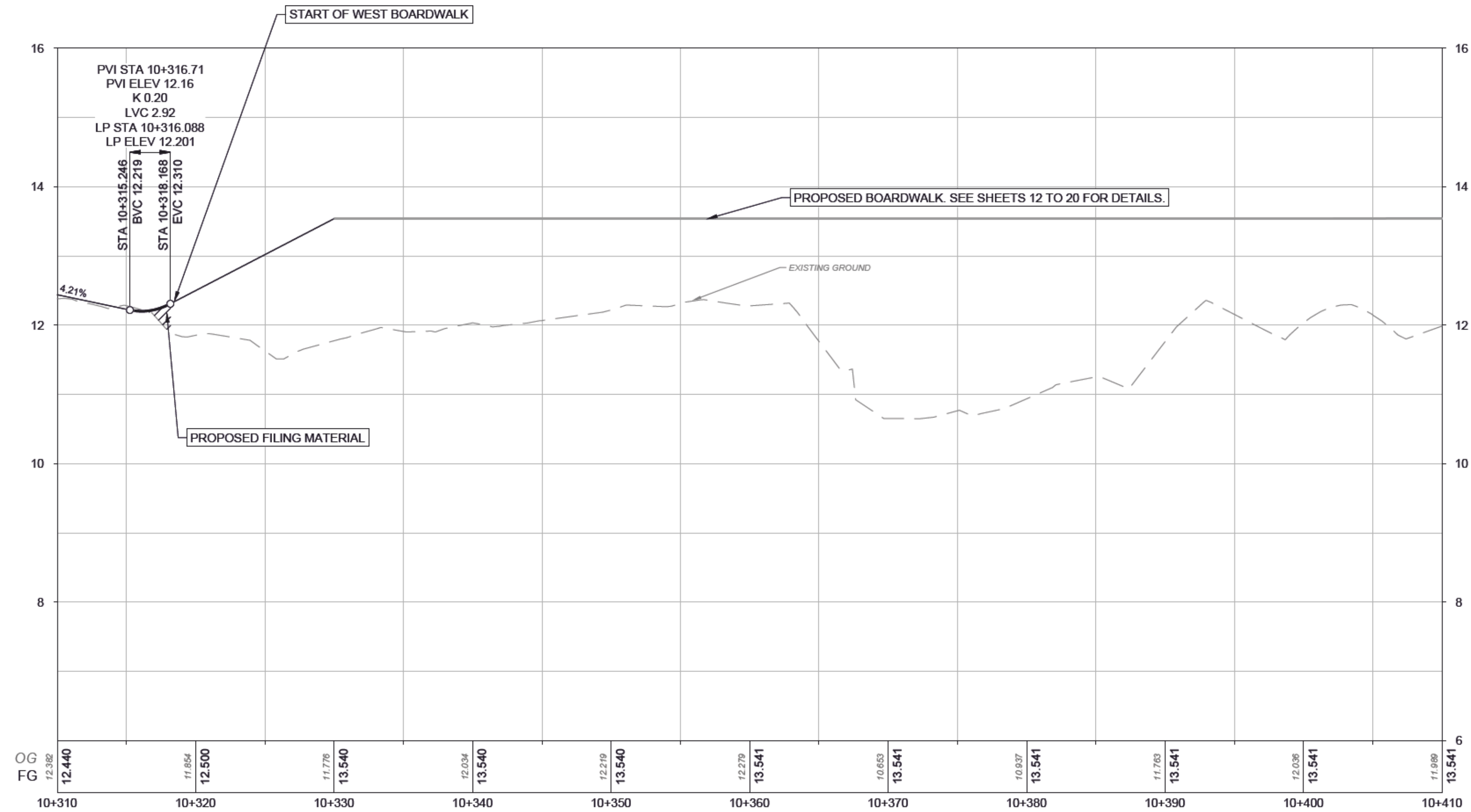
FOR CONTINUATION SEE SHEET No. 07



TREATMENT LEGEND

- ASPHALT
- CONCRETE
- GRAVEL
- GRASS - 150mm TOP SOIL AND SEED
- VEGETATION
- STABILIZED GRAVEL CORE 60-40V OR APPROVED ALTERNATE (OPTIONAL)

REFER TO PLANTING PLAN SHEET 21 FOR LANDSCAPING DETAILS



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PLOT DATE: October 22, 2024

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E	ISSUED FOR TENDER	2024.09.16	AG	IM



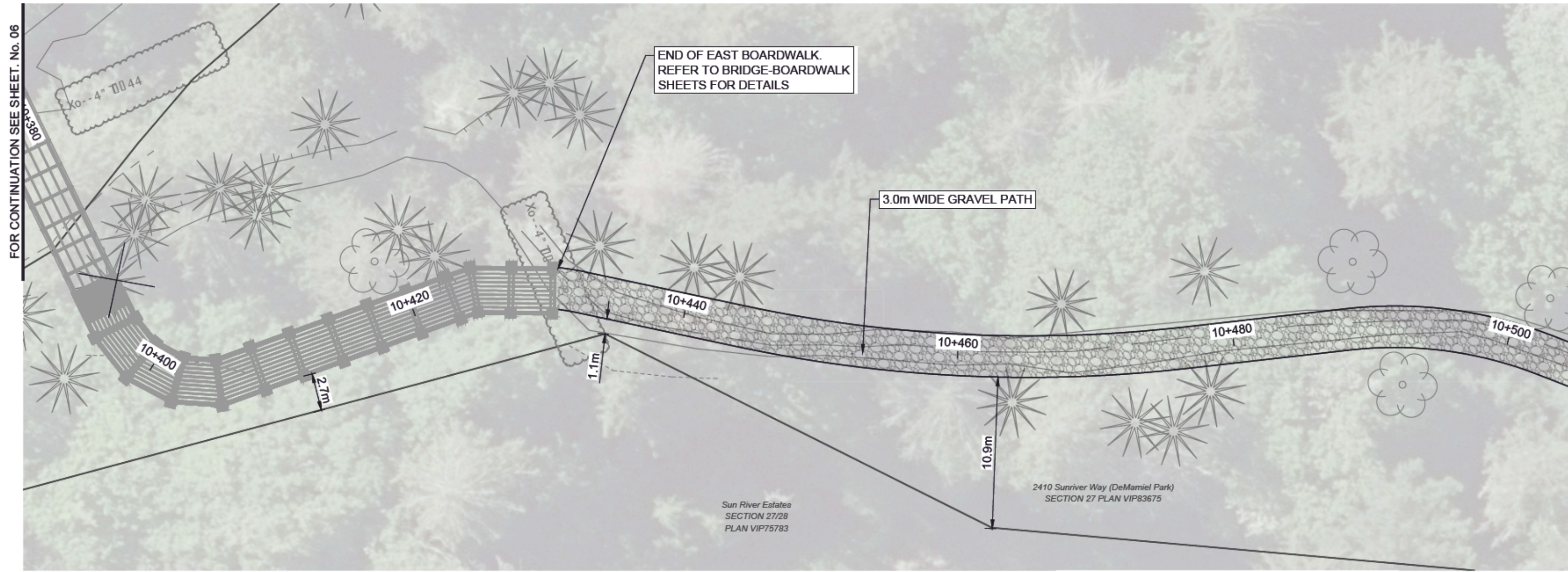
LITTLE RIVER PEDESTRIAN CROSSING
STA 10+310 TO STA 10+410



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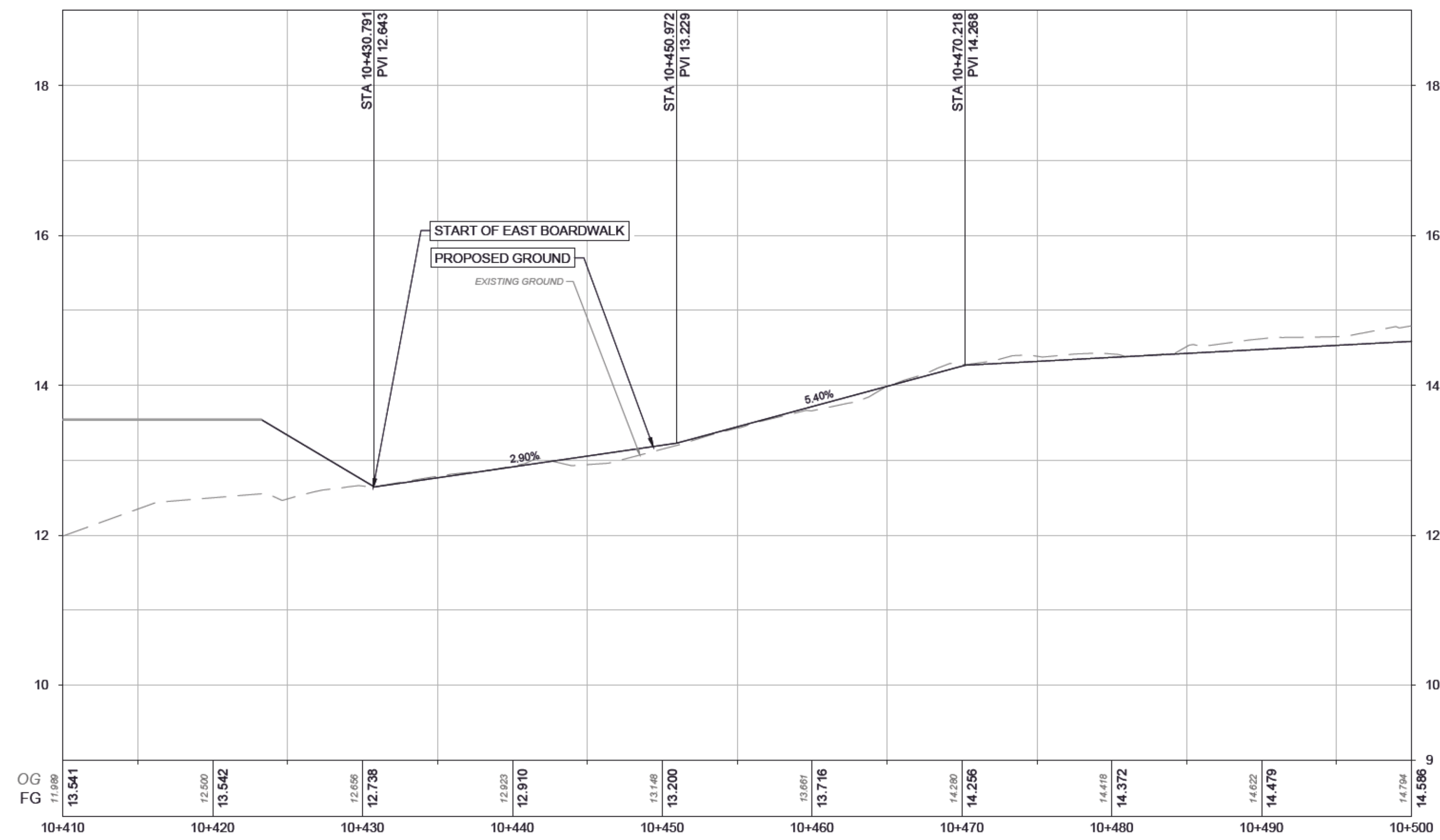
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CHECKED BY	KJ	APPROVED BY	IM	21
				REV. E

33549



TREATMENT LEGEND	
	ASPHALT
	CONCRETE
	GRAVEL
	GRASS - 150mm TOP SOIL AND SEED
	VEGETATION
	STABILIZED GRAVEL CORE 60-40V OR APPROVED ALTERNATE (OPTIONAL)

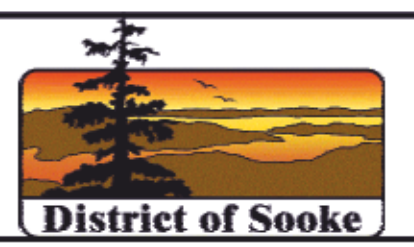
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PLOT DATE: October 22, 2024

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E	ISSUED FOR TENDER	2024.09.16	AG	IM



LITTLE RIVER PEDESTRIAN CROSSING

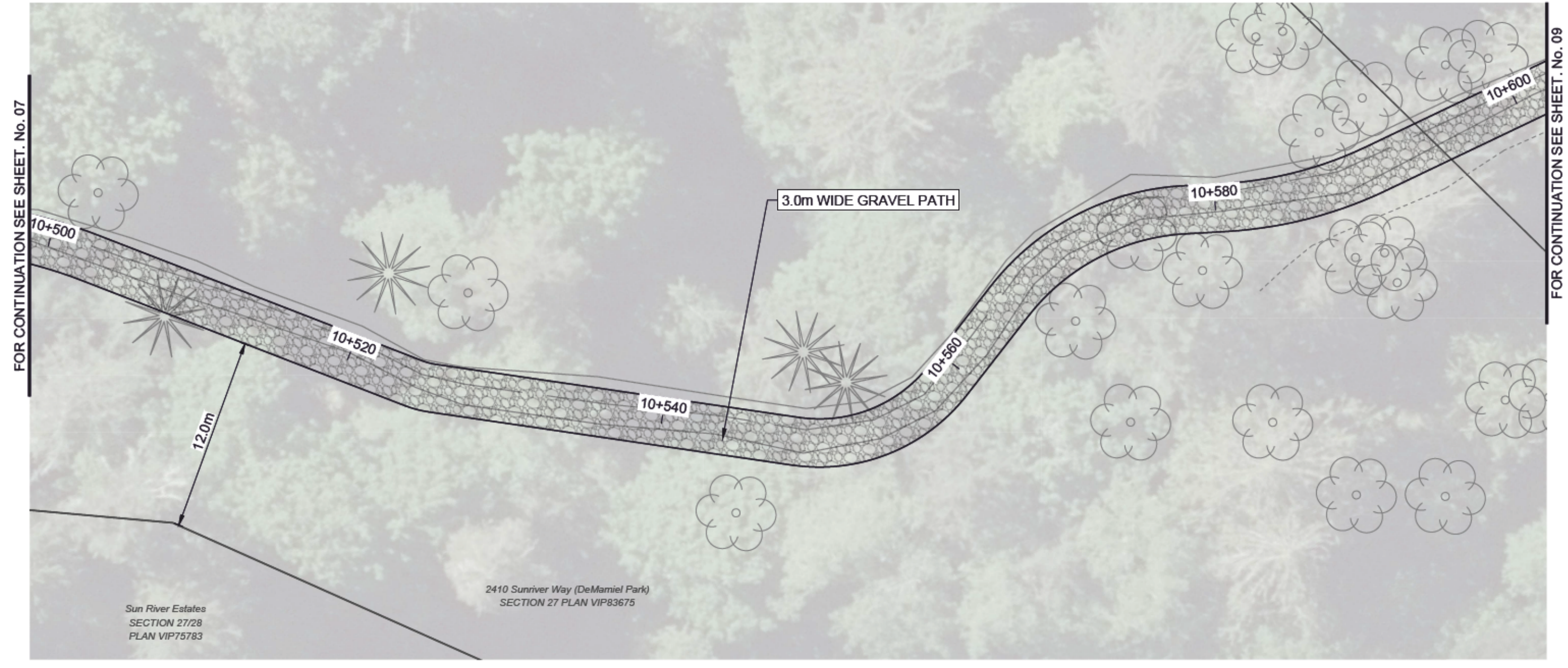
STA 10+410 TO STA 10+500



ISSUED FOR TENDER DESIGN NO.

33549

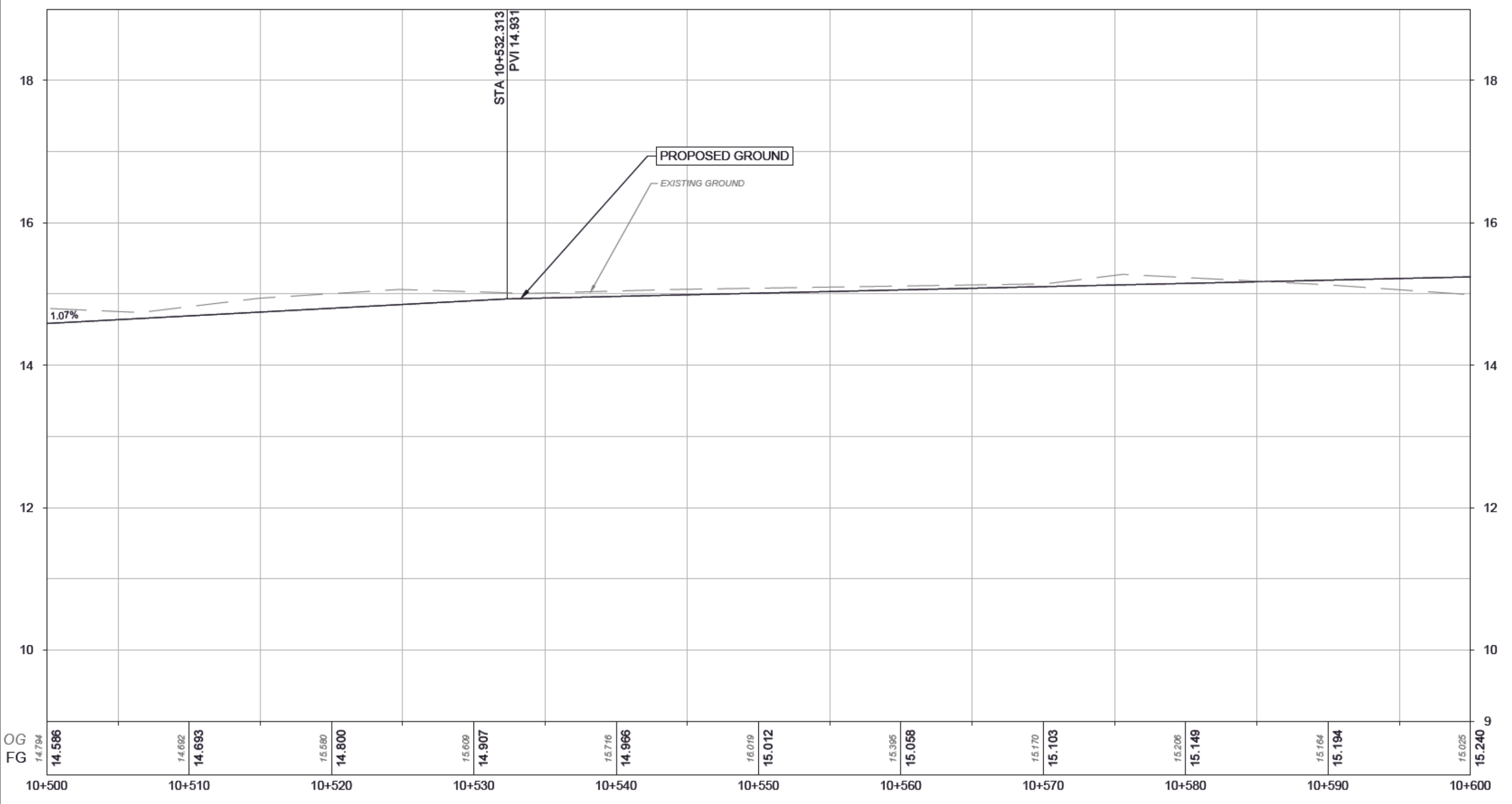
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				REV. E



TREATMENT LEGEND

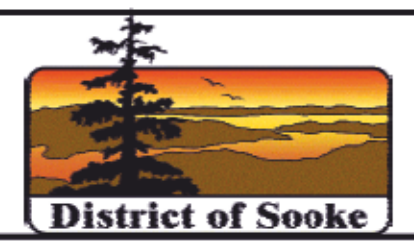
- ASPHALT
- CONCRETE
- GRAVEL
- GRASS - 150mm TOP SOIL AND SEED
- VEGETATION
- STABILIZED GRAVEL CORE 60-40V OR APPROVED ALTERNATE (OPTIONAL)

REFER TO PLANTING PLAN SHEET 21 FOR LANDSCAPING DETAILS



FILE: C:\AS\AS\AC\CD\AS\ISL\33549_DOS_LittleRiverPedCrossing\Project Files\20_Drafting\202_Production\33549_SH_ROADWORK.dwg
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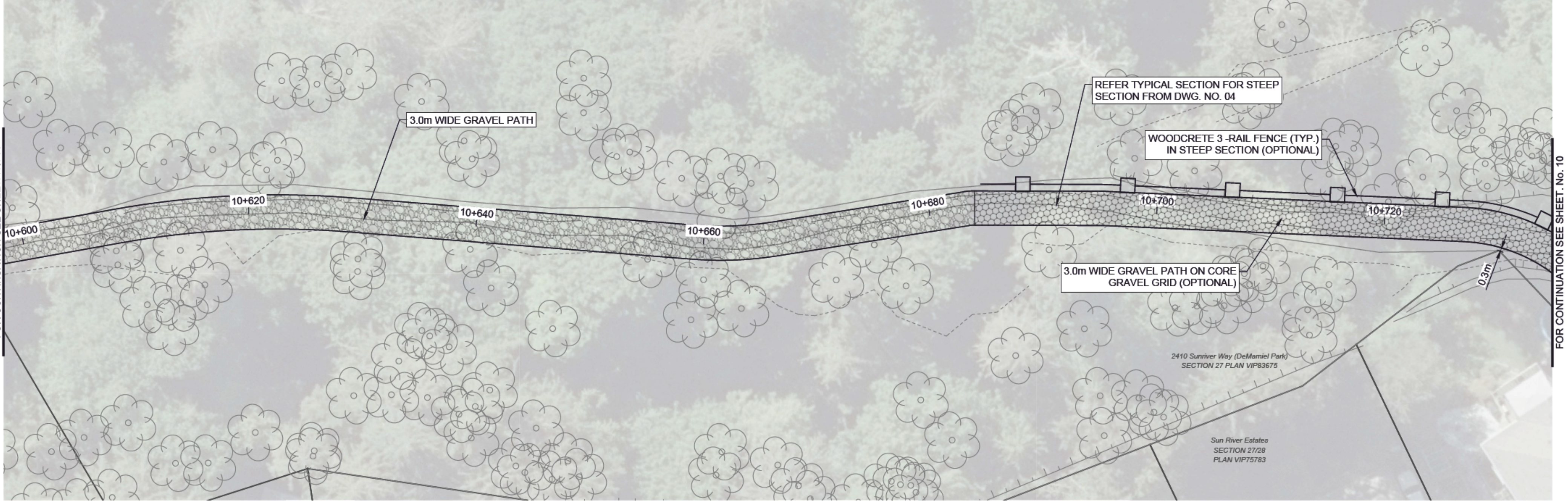
LITTLE RIVER PEDESTRIAN CROSSING
 STA 10+500 TO STA 10+600



ISSUED FOR TENDER DESIGN NO.

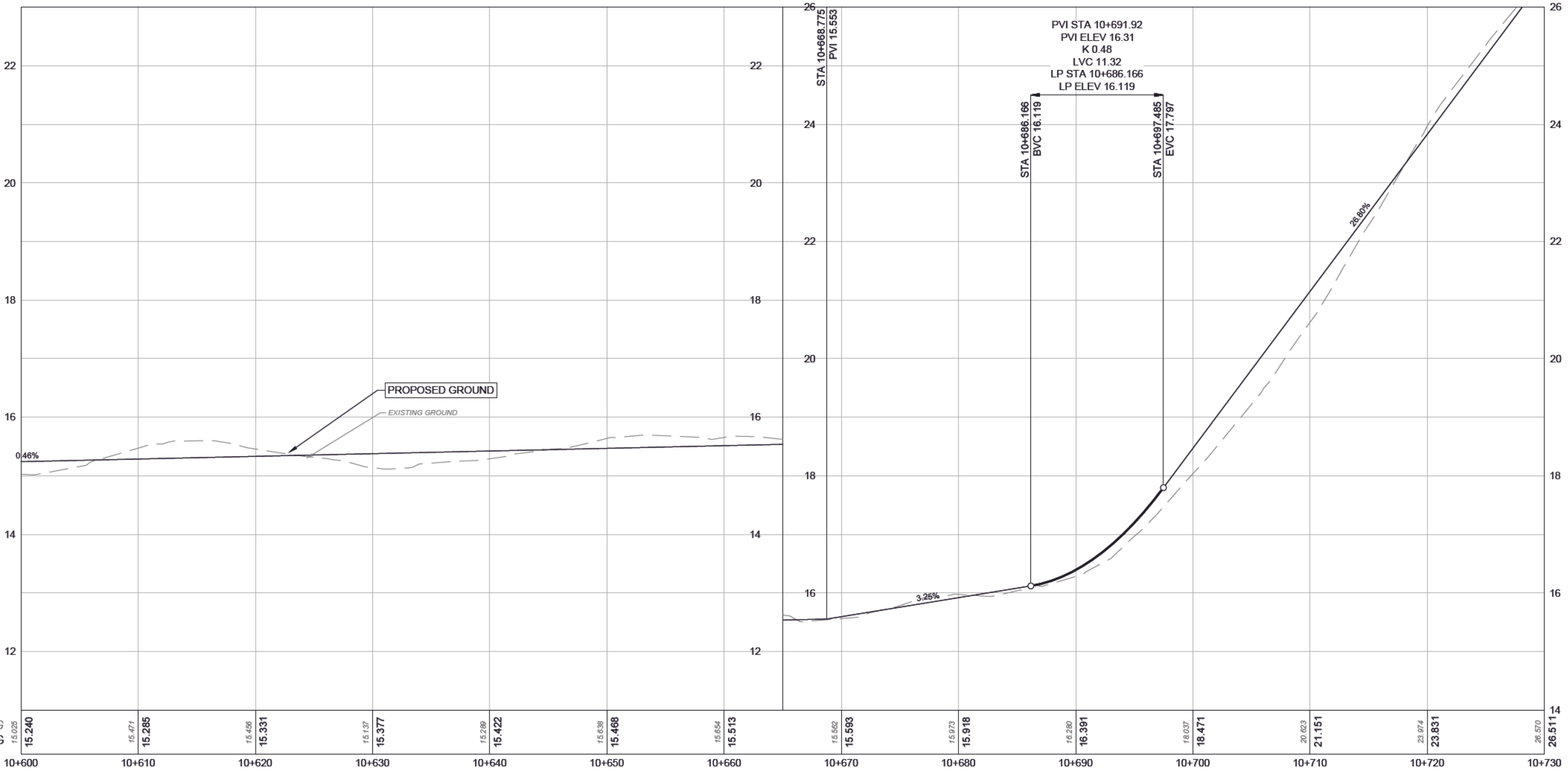
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SCALE	1:250	CREATION DATE	2023/03/01	DWG. NO.
DRAWN BY	AA	DESIGN BY	AA	08 OF 21
CHECKED BY	KJ	APPROVED BY	IM	REV. E



TREATMENT LEGEND	
	ASPHALT
	CONCRETE
	GRAVEL
	GRASS - 150mm TOP SOIL AND SEED
	VEGETATION
	STABILIZED GRAVEL CORE 60-40V OR APPROVED ALTERNATE (OPTIONAL)

REFER TO PLANTING PLAN SHEET 21 FOR LANDSCAPING DETAILS



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LITTLE RIVER PEDESTRIAN CROSSING

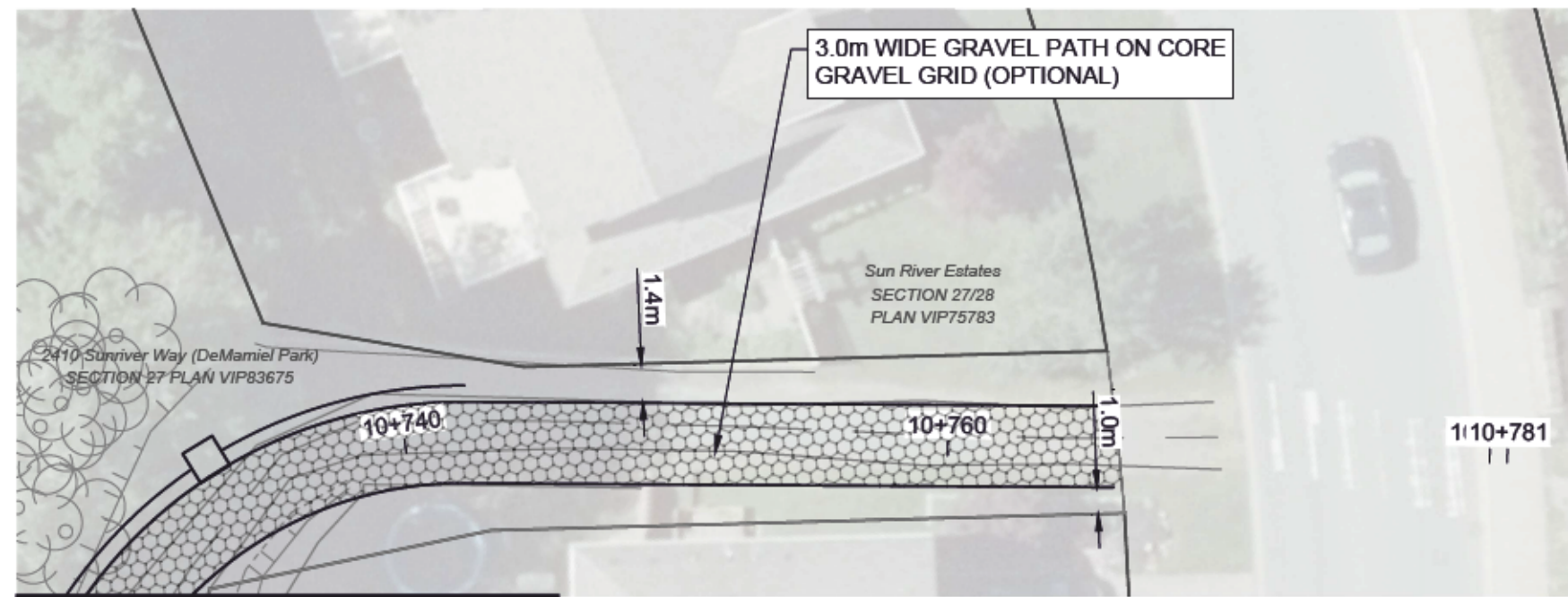
STA 10+600 TO STA 10+730



ISSUED FOR TENDER DESIGN NO.


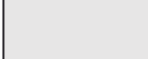




33549

SCALE	1:250	CREATION DATE	2023/03/01	DWG. NO.
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CHECKED BY	KJ	APPROVED BY	IM	21
				REV. E

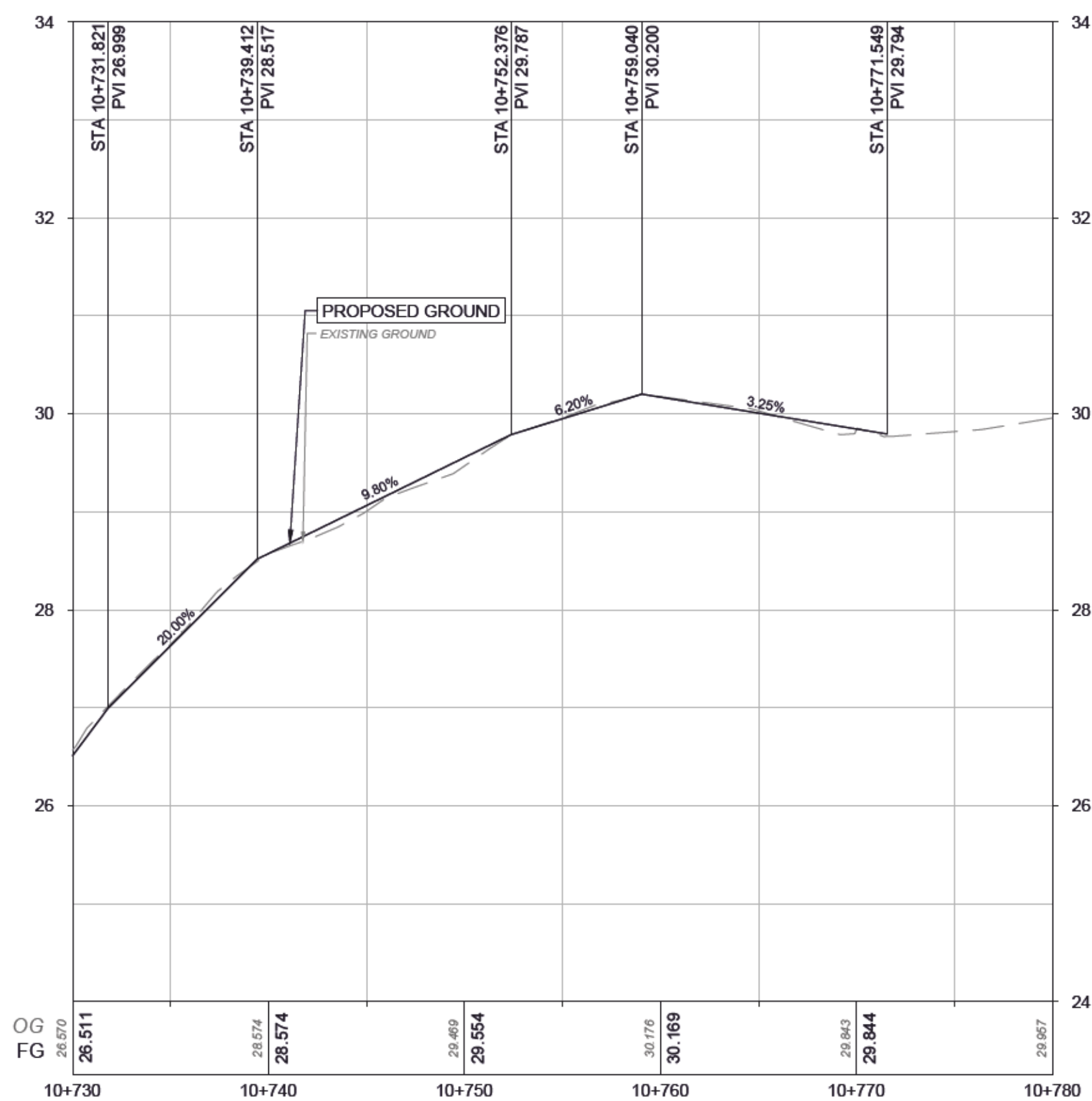


FOR CONTINUATION SEE SHEET . No. 09

TREATMENT LEGEND

-  ASPHALT
-  CONCRETE
-  GRAVEL
-  GRASS - 150mm TOP SOIL AND SEED
-  VEGETATION
-  STABILIZED GRAVEL CORE 60-40V OR APPROVED ALTERNATE (OPTIONAL)

REFER TO PLANTING PLAN SHEET 21 FOR LANDSCAPING DETAILS



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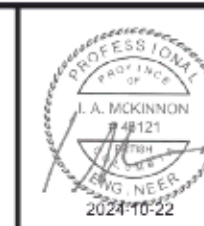
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E	ISSUED FOR TENDER	2024.09.16	AG	IM



LITTLE RIVER PEDESTRIAN CROSSING

STA 10+730 TO STA 10+780



1051 Vancouver St. Victoria, BC V8V 3K3
T: (250)361-3230 F: (604)529-5756

ISSUED FOR TENDER DESIGN NO.

SCALE	1:250	CREATION DATE	2023/03/01	DWG. NO.
DRAWN BY	AA	DESIGN BY	AA	10 OF 21
CHECKED BY	KJ	APPROVED BY	IM	REV. E

33549

GENERAL

- ALL WORK TO BE IN ACCORDANCE WITH THE CANADIAN HIGHWAY BRIDGE DESIGN CODE, CAN/CSA S6-19.
- READ THE ISSUED FOR CONSTRUCTION DRAWINGS IN CONJUNCTION WITH THE FINAL GEOTECHNICAL REPORTS FOR THE SITE. REPORT ANY INCONSISTENCIES TO ISL ENGINEERING BEFORE PROCEEDING WITH THE WORK.
- READ IN CONJUNCTION WITH PROJECT SPECIFICATIONS.
- SCALE INDICATED ON DRAWING IS APPROPRIATE SCALE AT FULL SIZE.
- ALL ELEVATIONS ARE GIVEN IN METERS (m) TO GEODETIC DATUM. ALL COORDINATES ARE IN METERS (m) AND DIMENSIONS ARE SHOWN IN MILLIMETERS (mm), UNLESS NOTED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT AND FINAL SITING. THE BENCHMARK IS TO BE REVIEWED BY THE DISTRICT AND ISL ENGINEERING FOR APPROVAL. THE SURVEYED BRIDGE ABUTMENT AND BOARDWALK SUPPORT LOCATIONS ARE TO BE REVIEWED FOR FINAL SITING BY THE DISTRICT AND ISL ENGINEERING PRIOR TO CONSTRUCTION. MINOR SITE ADJUSTMENTS MAY BE REQUIRED PRIOR TO PROCEEDING.
- THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION" IN THE REVISIONS COLUMN.
- ALL DIMENSIONS AND ELEVATIONS SHOWN ON THESE DRAWINGS ARE TO BE VERIFIED ON SITE PRIOR TO CONSTRUCTION, AND DISCREPANCIES ARE TO BE REPORTED TO ISL ENGINEERING BEFORE PROCEEDING.
- THE CONTRACTOR SHALL EXAMINE THE SITE AND THE FINAL GEOTECHNICAL REPORT AND ACCEPT ALL CHARACTERISTICS AND IRREGULARITIES OF THIS SITE.
- ALL SECTIONS, DETAILS, AND STATEMENTS ARE TYPICAL AND APPLY TO ALL SIMILAR SITUATIONS IN THE STRUCTURE.
- DRAWINGS SHOW COMPLETED STRUCTURES ONLY. THE DRAWINGS DO NOT SHOW COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND ABOUT THE JOB SITE DURING CONSTRUCTION. THE CONTRACTOR IS TO DESIGN AND PROVIDE ALL TEMPORARY BRACING, SHORING, AND FORMWORK FOR CONSTRUCTION LOADING CONDITIONS AND THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
- DESIGN OF THE LIFTING STRATEGY FOR THE BRIDGE SHALL BE CARRIED OUT BY A REGISTERED PROFESSIONAL ENGINEER.
- ANCHOR BOLTS HAVE BEEN DESIGNED FOR LOADS OF THE COMPLETED STRUCTURE ONLY. ANY ADDITIONAL LOADS SHALL BE APPROVED BY THE ENGINEER.
- SUBMIT TO THE ENGINEER FOR REVIEW ELECTRONIC COPIES OF THE FOLLOWING SHOP DRAWINGS:
 - CONCRETE REINFORCING
 - STRUCTURAL STEEL
 - BRACING, SHORING, AND/OR SAFETY-PROTECTION SYSTEM, IF REQUIRED
 - ERECTION PLANS
 - BEARINGS
 - EXPANSION JOINTS
 - RAILING
 - PREFABRICATED BRIDGE.
- FULLY DETAIL SHOP DRAWINGS AND SHOW ALL INFORMATION NECESSARY FOR FABRICATION AND INSTALLATION. DO NOT COMMENCE FABRICATION UNTIL REVIEWED BY ISL ENGINEERING.
- THE CONTRACTOR IS TO SUBMIT A SEDIMENT AND EROSION CONTROL PLAN FOR REVIEW PRIOR TO COMMENCING WORK ON SITE. SEDIMENT AND EROSION CONTROL PLANS SHALL DETAIL HOW ALL WATERCOURSES BEING PROTECTED AND PROVIDE DESCRIPTIONS AND CONTINGENCY FOR HIGH FLOWS OR WATER RUN OFF DUE TO RAIN EVENTS.
- NO WORK IS PERMITTED IN THE WATER OR BELOW THE WATER LINE IN ANY WAY. NO CONSTRUCTION WASTE, SEDIMENT OR DEBRIS CAN BE ALLOWED INTO THE WATER. THE WORK IS TO FOLLOW ALL REGULATORY REQUIREMENTS.
- REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE REVIEW OF SHOP DRAWINGS BY ISL ENGINEERING IS FOR THE SOLE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT AND THE EXTENT OF THIS REVIEW IS AT THE SOLE DISCRETION OF ISL ENGINEERING. THIS REVIEW IS NOT AN APPROVAL OF THE DESIGN, DETAILS, AND DIMENSIONS INHERENT IN THE SHOP DRAWINGS. THIS REVIEW DOES NOT MEAN THAT ISL ENGINEERING APPROVES THE DESIGN OR DETAILS INHERENT IN THE SHOP DRAWINGS, THE RESPONSIBILITY FOR WHICH REMAINS WITH THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND COORDINATED AT THE JOB SITE, FABRICATION PROCESSES, TECHNIQUES OF CONSTRUCTION AND INSTALLATION, AND FOR COORDINATION OF THE WORK OF ALL SUBTRADES.
- THE CONTRACTOR SHALL CO-OPERATE WITH ALL TESTING, INSPECTION, AND QUALITY CONTROL PERSONNEL REQUIRED ON THE SITE AND WILL PROVIDE CASUAL LABOUR FORCES AS REQUIRED TO ASSIST IN ALL THE FIELD REVIEW PROCEDURES. THE CONTRACTOR SHALL GIVE REASONABLE NOTICE TO THESE AGENCIES PRIOR TO REQUIRING THEIR SERVICES.
- ISL ENGINEERING OR THEIR REPRESENTATIVE WILL PROVIDE PERIODIC SITE REVIEWS FOR WORK SHOWN ON THESE DRAWINGS TO ASCERTAIN WHETHER THE WORK IS IN GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE SITE REVIEWS ARE NOT FOR THE CONTRACTOR'S BENEFIT AND THE CONTRACTOR REMAINS FULLY RESPONSIBLE TO ENSURE THAT ALL WORK IS CARRIED OUT IN ACCORDANCE WITH THESE DRAWINGS AND ALL APPLICABLE CODES. THE WORK TO BE REVIEWED SHALL GENERALLY BE COMPLETE.
- PROVIDE 48 HOURS ADVANCE NOTICE OF EACH REQUIRED SITE REVIEW. SITE REVIEWS SHALL BE SCHEDULED TO BE CARRIED OUT DURING NORMAL BUSINESS HOURS UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH ISL ENGINEERING.
- BEFORE CONCEALING ANY STRUCTURAL ELEMENTS, PROVIDE MINIMUM 48 HOURS NOTICE TO ISL ENGINEERING SO THE STRUCTURE CAN BE REVIEWED BY A REPRESENTATIVE OF ISL ENGINEERING. PROVIDE 48 HOURS NOTICE PRIOR TO POURING CONCRETE. ALL REINFORCEMENT SHALL BE IN PLACE AND SECURED AT THE TIME OF THE REVIEW.
- CONTRACTOR IS TO LIMIT THEIR CONSTRUCTION OPERATIONS TO LIMITS SHOWN ON THE DRAWINGS OR AS APPROVED BY A SITE PLAN PROVIDED TO ISL ENGINEERING AND THE DISTRICT.
- ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE CORRECT AT 15°C UNLESS NOTED OTHERWISE.
- CONTRACTOR'S CONSTRUCTION LOADS MUST NOT EXCEED THE DESIGN LOADS. DESIGN LOADS MAY ONLY BE APPLIED AFTER THE CONCRETE REACHES ITS DESIGN STRENGTH.

DESIGN DATA

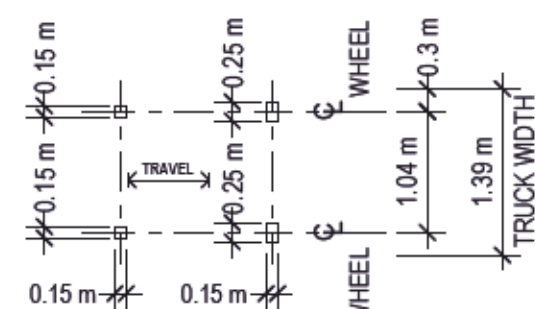
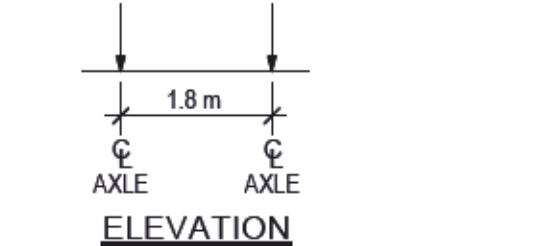
DESIGN LOADS:
DEAD LOADS:
 MAXIMUM PERMISSIBLE PRE-ENGINEERED BRIDGE FACTORED DEAD LOAD BEARING FORCE 45 kN
 FRAMING, DECKING: STRUCTURE SELF-WEIGHT ONLY

LIVE LOADS:
 PEDESTRIAN UNIFORM LOAD: 4.25 kPa

SNOW LOADS (Sooke, BC):
 SNOW LOAD (S_s): 1.3 kPa
 RAIN LOAD (S_r): 0.3 kPa

WIND LOADS:
 50 YEAR HOURLY WIND PRESSURE (q₅₀): 0.48 kPa

MODIFIED MAINTENANCE VEHICLE LOADS:
 GROSS LOAD = 9.8 kN (Kubota RTV 520)
 AXLE LOADS: 4.9 kN, 4.9 kN
 WHEEL LOADS: 2.5 kN, 2.5 kN



SEISMIC DATA:
 Sa(0.2) = 1.349g, Sa(0.5) = 1.235g, Sa(1.0) = 0.754g, Sa(2.0) = 0.451g
 PGA = 0.611g, PGV = 0.881
 SITE CLASSIFICATION = D
 DESIGN IMPORTANCE CATEGORY: 'OTHER'.

NOTE THAT HELICOPTER WASH LOADS AND TEMPORARY PIERS MAY BE REQUIRED AND SHOULD BE ACCOUNTED FOR BY THE CONTRACTOR IN THE DESIGN OF THE PREFABRICATED BRIDGE.

EXCAVATION / BACKFILL

- REFER TO GEOTECHNICAL REPORT FOR ALL EXCAVATION, BACKFILL AND COMPACTION REQUIREMENT.
- VERIFY GEOTECHNICAL INFORMATION ON SITE AND OBTAIN ADDITIONAL DATA IF REQUIRED.
- PRIOR TO COMMENCING EXCAVATION, LOCATE AND IDENTIFY ALL EXISTING UNDERGROUND STRUCTURES AND SERVICES.
- MAINTAIN STRUCTURES AND SERVICES WHICH ARE TO REMAIN OPERATIONAL OR WHICH WILL BE RE-USED. DESIGN AND PROVIDE PROTECTION AND SUPPORT. WHERE REQUIRED, OBTAIN APPROVAL FROM THE AUTHORITIES HAVING JURISDICTION AND DIVERT OR RELOCATE EXISTING SERVICES. REMOVE ALL OTHER STRUCTURES AND SERVICES.
- ESTABLISH LINES OF EXCAVATION AS REQUIRED NOT TO EXCEED MAXIMUM SLOPE OF EXCAVATION GIVEN IN THE GEOTECHNICAL REPORT. ANY DEVIATIONS FROM THIS DETAIL TO BE APPROVED BY THE GEOTECHNICAL ENGINEER (RYZUK) AND ISL ENGINEERING.
- EXCAVATE TO EXPOSE NATIVE UNDISTURBED SOIL, AND TO ALLOW FOR MINIMUM COMPACTED BACKFILL AND CONSTRUCTION CLEARANCES AS REQUIRED. REMOVE ALL TOPSOIL, LOOSE FILL, DEBRIS, SOFT SPOTS AND ORGANIC MATERIALS.
- LEGALLY DISPOSE OF ALL EXCAVATED MATERIALS, OR STORE ON SITE FOR BACKFILLING OPERATIONS IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS AND PROJECT SPECIFICATIONS.
- BACKFILLING MATERIALS TO BE AS NOTED IN THE GEOTECHNICAL REPORT, DRAWINGS OR SPECIFICATIONS.
- ALL BACKFILLING MATERIALS TO BE SOUND AND CLEAN, FREE FROM DEBRIS, ORGANIC AND FROZEN MATTER, WITH NO REACTIVE MINERALS NOR FRIABLE MATERIALS WITH SWELLING POTENTIAL.
- UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT, BACKFILL TO GRADES INDICATED IN LIFTS NOT EXCEEDING 300 mm. USE MECHANICAL COMPACTION EQUIPMENT. DO NOT PLACE BACKFILL OVER FROZEN SOIL.
- USE ONLY LIGHT, HAND-OPERATED EQUIPMENT FOR COMPACTION ADJACENT TO ABUTMENT WALLS. DO NOT BACKFILL UNTIL ELEMENTS PROVIDING LATERAL SUPPORT, INCLUDING BEAMS, TIES AND PILE CONNECTIONS ARE COMPLETED AND CONCRETE HAS REACHED 75% OF ITS DESIGN STRENGTH. FOR ELEMENTS THAT ARE TO BE BACKFILLED ON BOTH SIDES, PLACE BACKFILL SIMULTANEOUSLY ON BOTH SIDES SUCH THAT HEIGHTS DO NOT VARY BY MORE THAN 500 mm FROM ONE SIDE TO THE OTHER.
- MAINTAIN MOISTURE CONTENT IN BACKFILLING MATERIAL AS REQUIRED TO ACHIEVE THE SPECIFIED COMPACTION. PROTECT FROM EXCESSIVE MOISTURE DURING AND AFTER THE BACKFILLING OPERATION.
- UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT, COMPACT BACKFILL TO ACHIEVE THE FOLLOWING STANDARD PROCTOR MAXIMUM DRY DENSITIES:
 - BELOW ABUTMENT AND BOARDWALK FOOTINGS: 98%
 - BELOW PAVEMENT AND SIDEWALKS: 95%
 - BELOW LANDSCAPED AREAS: 90%
- CONTRACTOR TO OBTAIN AN INDEPENDENT INSPECTION AND TESTING AGENCY TO MONITOR COMPACTION AND CONDUCT DENSITY TESTING DURING INSTALLATION OF ALL GRANULAR MATERIALS, AT THE EXPENSE OF THE CONTRACTOR. SUBMIT RECORDS OF QUALITY CONTROL FOR RECORDS TO ISL ENGINEERING.

FOUNDATIONS

- STRUCTURAL DESIGN IS BASED ON THE GEOTECHNICAL REPORT PREPARED BY: RYZUK GEOTECHNICAL LTD. REPORT NUMBER: 7930-42, DATED: SEPTEMBER 12, 2023. REFER TO THE GEOTECHNICAL REPORT FOR DETAILED INFORMATION ON GEOTECHNICAL CONDITIONS, FOUNDATION RECOMMENDATIONS, AND FOR ALL EARTHWORK INCLUDING EXCAVATION, BACKFILL, AND SUBGRADE PREPARATION.
- FOR FOUNDATIONS ON COMPACT TO DENSE NATIVE SAND, GRAVEL AND COBBLES:
 SERVICEABILITY BEARING CAPACITY: 140 kPa
 ULTIMATE BEARING CAPACITY: 210 kPa
- FOOTING BEARING SURFACES SHALL BE INSPECTED AND APPROVED BY GEOTECHNICAL ENGINEER (RYZUK) PRIOR TO PLACEMENT OF FILLS OR CONSTRUCTION OF FORMS.
- BACKFILL SHALL CONSIST OF 19 mm CRUSHED ROCK PLACE IN MAXIMUM 300 mm LIFTS COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY. 19mm MINUS MATERIAL SHALL BE CAMPPED WITH INCREASINGLY LARGER-GRAINED MATERIALS, OR AS DIRECTED BY GEOTECHNICAL ENGINEER.
- EXISTING NATURAL AND GRANULAR FILL SOIL ON SITE MAY BE REUSABLE AS ENGINEERED FILL. SUBJECT TO GEOTECHNICAL ENGINEER SITE REVIEW TO ASSESS SUITABILITY.

REINFORCING STEEL

- ALL WORK TO BE IN ACCORDANCE WITH CAN/CSA A23.1 AND A23.3, LATEST EDITIONS.
- DEFORMED BARS - CSA G30.18, GRADE 400R OR 400W. WHERE REBAR ARE SHOWN TO BE WELDED USE ONLY GRADE 400W.
- DESIGN OF THE REINFORCING BARS, INCLUDING HOOKS, DEVELOPMENT LENGTHS AND BAR SPLICES IS BASED ON YIELD STRENGTH OF 400 MPA.
- GALVANIZED ANCHOR BOLTS: GRADE 400W CONFORMING TO ASTM F1554 UNLESS NOTED OTHERWISE.
- SHOP DRAWINGS SHALL INCLUDE BENDING, CUTTING, AND PLACING DRAWINGS FOR ALL REINFORCING STEEL. CLEARLY INDICATE CONCRETE COVER TO REINFORCING, BAR SIZES, GRADES, SPACING, REINFORCEMENT LOCATIONS, AND BAR SUPPORTS.
- PROVIDE ADDITIONAL SUPPORT BARS AS REQUIRED TO ADEQUATELY SUPPORT AND SECURE ALL REINFORCEMENT AND PREVENT MOVEMENT WHEN PLACING CONCRETE.
- LOCATE CHAIRS FOR REINFORCING AT A MAXIMUM OF 1200mm CENTRES.
- ENSURE REINFORCING IS CLEAN; FREE OF LOOSE SCALE, OIL, DIRT, RUST, AND ANY OTHER FOREIGN COATINGS THAT AFFECT BONDING CAPACITY BEFORE PLACING REBAR.
- ALL REBAR LAP SPLICE LENGTHS TO BE AS SHOWN IN FOLLOWING TABLE: WHERE NO LAP SPLICE TYPE IS INDICATED, PROVIDE TENSION LAP SPLICE. ALL TENSION LAP SPLICES ARE CLASS B.

LAP LENGTH FOR CLASS B SPLICE	
SIZE	LENGTH (mm)
10M	390
15M	485
20M	590
25M	900
30M	1260

STRUCTURAL WELDABLE NOTCH - TOUGH STEEL

- ALL STRUCTURAL STEEL SPECIFIED AS W.T. TO MEET CHARPY CATEGORY 2.
- ALL WELDS SPECIFIED FOR W.T. STEEL TO MEET CHARPY CATEGORY 2.

TIMBER FRAMING

- ALL SAWN TIMBER TO BE PRESSURE-TREATED (PT) DOUGLAS FIR No.1 OR BETTER.
- ALL TIMBER SIZES ARE NOMINAL DIMENSIONS OF GROSS SECTION PRIOR TO SEASONING.
- CONFIRM ALL DIMENSIONS, CONNECTION GEOMETRY AND CONSTRUCTABILITY OF THE ASSEMBLIES BEFORE PROCEEDING WITH FABRICATION. REPORT DISCREPANCIES TO ISL ENGINEERING.
- TIMBER FRAME SUPPLIER TO SUBMIT DIGITAL PDF COPY OF SHOP DRAWINGS FOR REVIEW AND APPROVAL OF ISL ENGINEERING PRIOR TO PROCEEDING WITH THE FABRICATION.
- ALL CONNECTIONS TO MEET THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE AND CSA 086-19 ENGINEERING DESIGN IN WOOD.
- TEMPORARY SUPPORT AND TEMPORARY BRACING OF THE TIMBER ELEMENTS DURING ERECTION AND CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.

CONCRETE

- ALL WORK TO BE IN ACCORDANCE WITH CAN/CSA A23.1, A23.2, AND A23.3, LATEST EDITIONS.
- ALL CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 35 MPa AT 28 DAYS EXP. CLASS C-1.
- COLDHOT WEATHER CONCRETING PROCEDURES TO CAN/CSA A23.1.
- PLACE CONCRETE AS CLOSE AS POSSIBLE TO FINAL LOCATION TO AVOID SEGREGATION. VIBRATE ALL CONCRETE.
- CURE CONCRETE IN ACCORDANCE WITH CAN/CSA A23.1, AND FOR A MINIMUM OF 7 DAYS AT A MINIMUM TEMPERATURE OF 10°C. OR FOR THE TIME NECESSARY TO OBTAIN 70% OF THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
- ALL EXPOSED CORNERS SHALL HAVE A 20 mm CHAMFER OR FILLET UNLESS NOTED OTHERWISE.
- CLEAR COVER TO BE IN ACCORDANCE WITH CAN/CSA S6-19.
- CLEAR COVER TO SURFACES IN CONTACT WITH SOIL TO BE 75 mm ± 10 mm UNLESS NOTED OTHERWISE.
- FINISHED CONCRETE SURFACES TO BE TO THE LONGITUDINAL AND TRANSVERSE PROFILES (ELEVATIONS) AS INDICATED ON THE DRAWINGS.

CONCRETE FINISHING

- REQUIREMENTS OF CONCRETE FINISH:
 - CLASS 1: ORDINARY SURFACE FINISH.
 - CLASS 2: RUBBED FINISH - REQUIRED FOR ANY SURFACE THAT IS TO RECEIVE A CONCRETE SEALER.
 - CLASS 3: FLOATED SURFACE FINISH - REQUIRED FOR ALL UNEXPOSED TOP SURFACES.
 - CLASS 4: TROWEL FINISH - REQUIRED FOR ALL EXPOSED TOP SURFACES.

STRUCTURAL STEEL AND ALUMINUM SPECIFICATIONS

- FABRICATE AND ERECT STRUCTURAL STEEL TO CSA S16.1, LATEST EDITION.
- FABRICATE AND ERECT STRUCTURAL ALUMINUM TO CSA W59.2, LATEST EDITION.
- STRUCTURAL STEEL TO BE ATMOSPHERIC STEEL TO ASTM 588 GRADE B OR CSA G40.21 350AT. HSS SHALL CONFORM TO ASTM A588/A847.
- STRUCTURAL ALUMINUM SHALL BE CONSIST OF ALLOY 6061-T6 FOR STRUCTURAL SHAPES OR ALLOY 5083-H112 FOR STRUCTURAL PLATES.
- THE PRE-ENGINEERED BRIDGE IS TO BE DESIGNED TO CAN/CSA S6-19. THE SHOP DRAWINGS PROVIDED SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. THE PRE-ENGINEERED TRUSS BRIDGE INCLUDING ALL SECONDARY MEMBERS, BEARINGS, ANCHORS AND DECKING ARE TO FOLLOW THE INTENT SHOWN ON THE ISL ENGINEERING DRAWINGS. ANY DEVIATION FROM THE INTENT SHOWN IS TO BE FULLY COMMUNICATED PRIOR TO PROCEEDING AND MAY NOT BE ACCEPTED. THE FABRICATOR'S ENGINEER IS RESPONSIBLE FOR THE DESIGN OF THE COMPLETE SUPERSTRUCTURE SYSTEM INCLUDING THE ANALYSIS, MEMBER SIZING, FINAL CONFIGURATION, MATERIAL SPECIFICATIONS, CONNECTIONS, WELDING PROCEDURES AND ANY OTHER DESIGN ITEMS REQUIRED FOR THE COMPLETE SUPERSTRUCTURE AS AN ENGINEERED COMPONENT. UPON REQUEST OF ISL ENGINEERING, ALL CALCULATIONS, CERTIFICATION, QUALITY CONTROL PROTOCOLS AND RECORDS AND TESTING CERTIFICATED ARE TO BE PROVIDED FOR REVIEW AND RECORDS.
- STRUCTURAL BOLTS AND NUTS TO ASTM A325 OR F3125 OR A449 AS SPECIFIED. TIGHTEN OF ALL BOLTS TO BE INSTALLED WITH TURN-OF-NUT METHOD UNLESS NOTED OTHERWISE.
- PROVIDE A CONTINUOUS 50 MPa GROUT BED BENEATH BASE PLATE AND OTHER CONNECTIONS BEARING ONTO CONCRETE.
- SUBMIT SHOP DRAWINGS TO ISL ENGINEERING FOR REVIEW PRIOR TO FABRICATION. SHOW ALL DETAILS, INCLUDING FIELD SPLICES, AND MATERIAL SPECIFICATIONS.
- STRUCTURAL STEEL WELDING TO BE METAL ARC WELDING TO CSA W59 BY WELDERS APPROVED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA W47.1. MINIMUM SIZE OF FIELD WELD, 2 mm LESS THAN THE THICKNESS OF THE MATERIAL BUT NOT LESS THAN 6 mm UNLESS NOTED OTHERWISE.
- STRUCTURAL ALUMINUM WELDS SHALL CONSIST OF ALLOY 5356 AND USE MIG WELDING TECHNIQUES. THE ALUMINUM WELDING COMPANY SHALL BE CERTIFIED TO CSA 47.2, DIVISIONS 1, 2, AND 3.
- STEEL GRADES AND ALUMINUM ALLOYS MAY ONLY BE ALTERED WITH THE APPROVAL OF ISL ENGINEERING.
- IMPERIAL PLATE SIZES MAY BE SUBSTITUTED FOR METRIC SIZES AS FOLLOWS WITH OUTSIDE DIMENSIONS MAINTAINED FOR BUILT-UP SECTIONS.
 - 10 mm: 3/8"
 - 12 mm: 1/2"
 - 20 mm: 3/4"
 - 25 mm: 1"
 - 30 mm: 1 1/4"
- ALL STRUCTURAL STEEL WELDING SHALL CONFORM TO CURRENT AWS D1.1 AND CAN/CSA W59, LATEST EDITIONS FOR STATICALLY LOADED STRUCTURES.
- ALL BUTT AND CONTINUOUS FILLET STRUCTURAL STEEL WELDS SHALL BE MADE BY AN APPROVED SEMI OR FULLY AUTOMATIC SUBMERGED ARC PROCESS.
- ALL SHOP WELD TESTING: WELD INSPECTIONS AND TESTING TO BE CARRIED OUT IN ACCORDANCE WITH REQUIREMENTS OF AWS D1.5 AND CAN/CSA W59, LATEST EDITIONS FOR STATICALLY LOADED STRUCTURES.
- STRUCTURAL STEEL FIELD WELDING IS TO BE AVOIDED.
- CONNECTIONS BETWEEN THE SUPERSTRUCTURE AND FOUNDATIONS SHALL BE DETAILED SUCH THAT SEISMIC LOADS CAN RELIABLY BE TRANSFERRED TO THE FOUNDATIONS.
- IF DISSIMILAR METALS ARE IN CONTACT, APPLY A PROTECTIVE COATING BARRIER OR APPROVED EQUIVALENT TO ALL CONTACT SURFACES.

PRECAST CONCRETE

- DESIGN, FABRICATION AND ERECTION SHALL CONFIRM TO CAN/CSA A23.4-16, CSA S413-14 AND ACI A135. DESIGN LOADS AS PER GENERAL NOTES AND DRAWINGS.
- PRECAST MANUFACTURER SHALL BE CERTIFIED IN ACCORDANCE WITH CSA A251.
- ALL REINFORCING STEEL, BOLTS, PLATES, INSERTS, ETC., FOR PRECAST CONNECTIONS SHALL BE DETAILED AND SUPPLIED BY PRECAST MANUFACTURER. ANY PROPOSED ALTERNATE CONNECTIONS MUST BE PRE-APPROVED BY PRECAST STRUCTURAL ENGINEER IN WRITING.
- PRECAST SUPPLIER SHALL SUBMIT SHOP DRAWINGS FOR REVIEW.
- FIELD CUTTING AND DRILLING IS NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER AND SUPPLIER.
- REINFORCEMENT SHALL BE IN ACCORDANCE WITH REINFORCING STEEL SPECIFICATION.
- POWER ACTUATED FASTENERS SHALL NOT BE USED FOR FASTENING TO PRECAST MEMBERS. SEE DRAWINGS FOR CONNECTION DETAILS. STRUCTURAL ENGINEER SHALL APPROVE ALL LOCATIONS AND TYPES OF FASTENINGS.
- ALL TOLERANCES AND COVERS SHALL CONFORM TO THE FOLLOWING TABLE:

FABRICATION TOLERANCES (mm)			
	LENGTH AND HEIGHT	STRAIGHTNESS AND SKEWNESS	THICKNESS
UP TO 3000	0 TO 10	±10	±5

PRE-ENGINEERED BRIDGE

- PRE-ENGINEERED CLEAR SPAN BRIDGE (30m SPAN) TO BE DESIGNED AND SUPPLIED BY THE CONTRACTOR USING THE BEARING LOCATIONS AND SUPERSTRUCTURE CAMBER INDICATED ON THE DRAWINGS. THE CONTRACTOR TO SUBMIT TO THE OWNER FOR REVIEW, STAMPED AND SEALED DRAWINGS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA.
- DESIGN CODE: DESIGN TO CONFIRM TO CHBDC CAN/CSA S6-19 AND ALL OTHER APPLICABLE CODES AND BEST PRACTICES.
- SEE DESIGN DATA SECTION FOR BRIDGE LOADINGS.
- STRUCTURAL COMPONENTS SHALL SATISFY THE REQUIREMENTS FOR THE FATIGUE LIMIT STATE.
- TENSION MEMBERS TO BE FABRICATED AS FRACTURE CRITICAL COMPONENTS IN ACCORDANCE WITH CAN/CSA-S6, CSA W59.
- THE MAXIMUM PRE-ENGINEERED BRIDGE FACTORED DEAD LOAD BEARING FORCE OF 45 kN (PER BEARING) MUST NOT BE EXCEEDED BY THE PRE-ENGINEERED BRIDGE, WHICH REPRESENTS A CONSTRAINT ON THE DESIGN.
- BEARING REACTIONS AND CALCULATIONS ARE TO BE MADE AVAILABLE FOR REVIEW BY ISL ENGINEERING, INCLUDING THE PRE-ENGINEER BRIDGE FACTORED DEAD LOAD BEARING FORCES. ISL ENGINEERING WILL USE THESE DESIGN FORCES TO CONFIRM THE SUBSTRUCTURE DESIGN FOR THE BRIDGE.



Permit to Practice
 ISL Engineering and Land Services Ltd.

RR Signature: _____
 RR EGBC ID: 161675
 Date: 2024-10-21

Permit Number 1000419
 Engineers & Geoscientists British Columbia

ISSUED FOR TENDER DESIGN NO.

33549

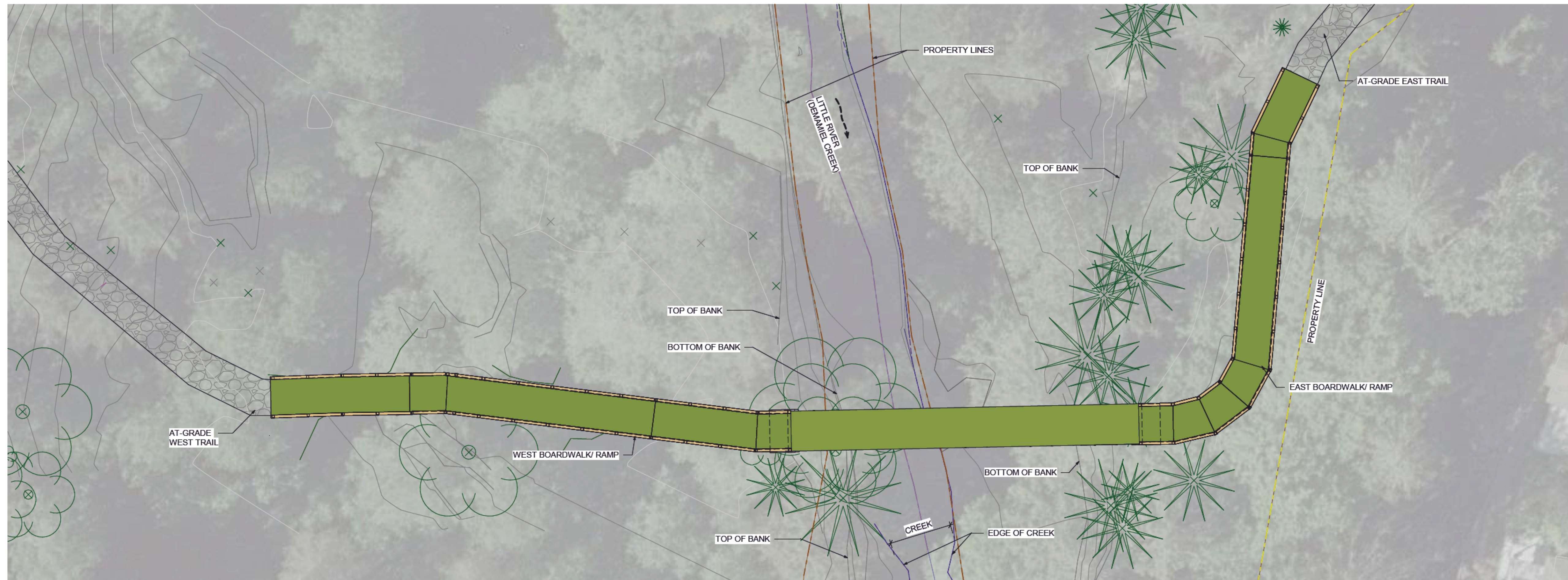
No.	REVISION DESCRIPTION	DATE	BY
A	ISSUED FOR REGULATORY APPROVAL	2023.12.13	CW
B	90% DETAILED DESIGN	2024.02.16	CW
C	100% DETAILED DESIGN	2024.10.09	BRR
D	ISSUED FOR TENDER	2024.10.16	BRR



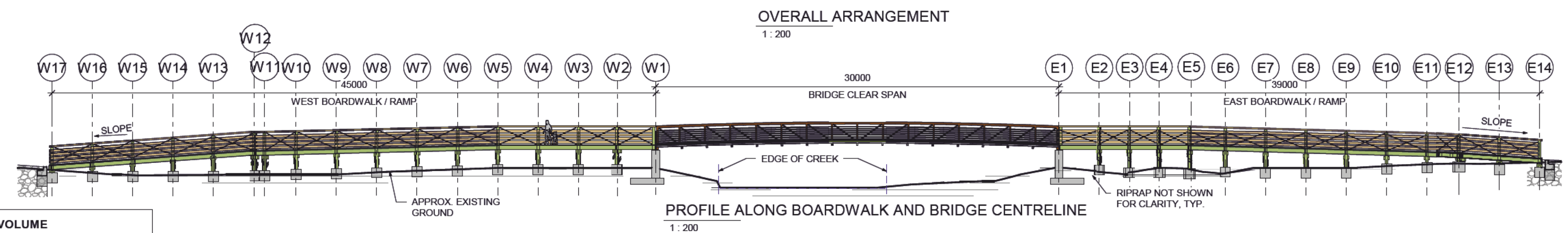
LITTLE RIVER PEDESTRIAN CROSSING
 STRUCTURAL NOTES



SCALE	As indicated	CREATION DATE	2024.10.09	DWG. NO.	11
DRAWN BY	JWC	DESIGNED BY	CKW	OF	20
CHECKED BY	BRR	APPROVED BY	BRR	REV.	C



NOTES:
 1. FOR GENERAL STRUCTURAL NOTES REFER TO DRAWING NO. 11.
 2. FOR WEST AND EAST AT-GRADE TRAIL REFER TO CIVL DRAWINGS.



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 ISL Engineering and Land Services Ltd.
 RR Signature: [Signature]
 RR EGBC ID: 161676
 Date: 2024-10-16
 Permit Number 1000419
 Engineers & Geoscientists British Columbia

CONCRETE ABUTMENT VOLUME		
TYPE	QUANTITY	TOTAL VOLUME (m3)
3700x2500x600	2	17.69

PAD FOOTING VOLUME		
TYPE	QUANTITY	TOTAL VOLUME (m)
Lock-Block (30MPa)	68	24.47

WOOD COLUMN VOLUME (APPROXIMATE, DEPENDING ON PRECISE EXISTING GROUND ELEVATIONS)		
TYPE	QUANTITY	VOLUME (m3)
203x203 RS. D.Fir	62	6.48

WOOD BEAM VOLUME		
TYPE	QUANTITY	VOLUME (m3)
102x254 RS. P.T. D.Fir	58	5.29

WOOD CRIPPLE VOLUME (APPROXIMATE, DEPENDING ON PRECISE EXISTING GROUND ELEVATIONS)		
TYPE	QUANTITY	VOLUME (m3)
38x184 SPF P.T.	100	0.52

WOOD BRACE VOLUME (APPROXIMATE, DEPENDING ON PRECISE EXISTING GROUND ELEVATIONS)		
TYPE	QUANTITY	VOLUME (m3)
38x184 SPF No.1/2	42	1.15

WOOD JOIST VOLUME			
TYPE	QUANTITY	TOTAL LENGTH (m)	VOLUME (m3)
75x305 SPF P.T.	308	911.80	20.82

DECKING VOLUME	
TYPE	VOLUME (m3)
75mm THK. DECK PLANKS AYC OR PT	19.25

TOP RAIL VOLUME			
TYPE	QUANTITY	TOTAL LENGTH (m)	VOLUME (m3)
102x254 D.Fir	58	165.54	4.27

WOOD RAILING VOLUME			
TYPE	QUANTITY	TOTAL LENGTH (m)	VOLUME (m3)
50x175 SPF No.1/2	168	660.82	5.85

STEEL ROD VOLUME		
TYPE	LENGTH (m)	VOLUME (m3)
1/2" Ø STEEL ROD	337.2	0.04



ISOMETRIC VIEW (INDICATIVE ONLY)

ISSUED FOR TENDER DESIGN NO.

33549

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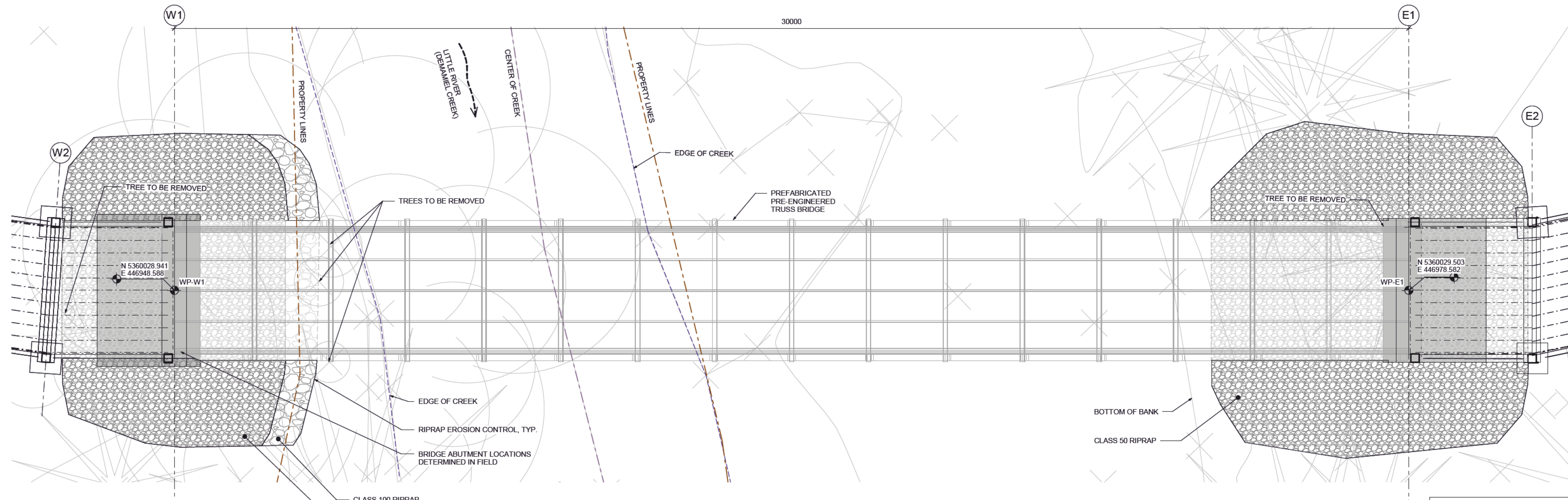
No.	REVISION DESCRIPTION	DATE	BY
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B	90% DETAILED DESIGN	2024.02.16	CW
C	100% DETAILED DESIGN	2024.10.09	BRR
D	ISSUED FOR TENDER	2024.10.16	BRR



LITTLE RIVER PEDESTRIAN CROSSING
 BRIDGE AND BOARDWALK - OVERALL ARRANGEMENT



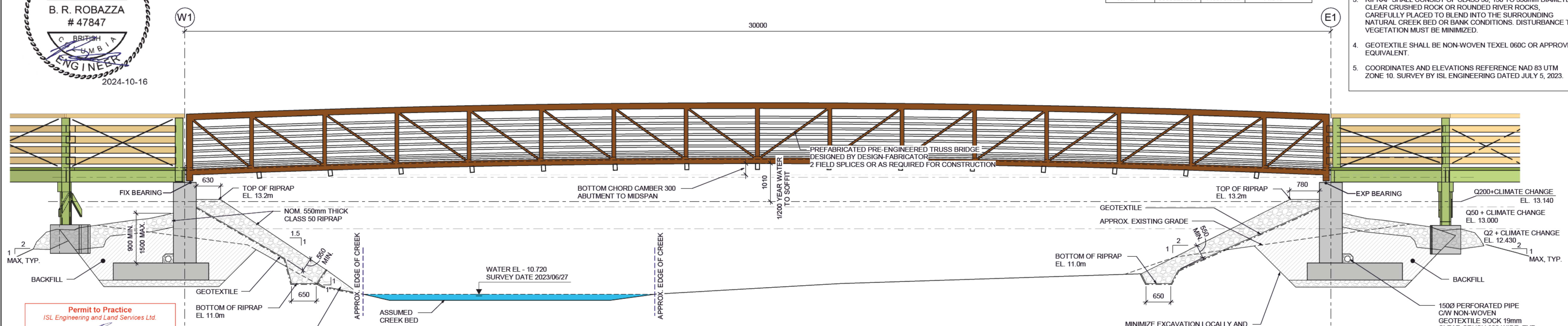
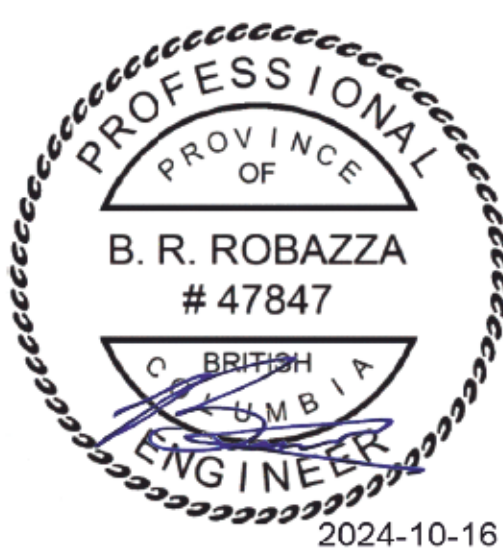
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DRAWN BY	JWC	DESIGNED BY	CKW	OF	20
CHECKED BY	BRR	APPROVED BY	BRR	REV.	C



BRIDGE PLAN
1:50

WORK POINT TABLE			
WORKPOINT	NORTHING	EASTING	TOP OF PATHWAY ELEVATION (m)
WP-W1	5360028.941	446948.588	14.040
WP-E1	5360029.503	446978.582	14.040

- NOTES:**
- FOR GENERAL STRUCTURAL NOTES REFER TO DRAWING NO. 11.
 - TREE AND BUSH REMOVAL SHALL BE REQUIRED AT ABUTMENT LOCATIONS, BUT SHALL BE MINIMIZED.
 - RIPRAP SHALL CONSIST OF CLASS 50, 150 TO 550mm DIAMETER CLEAR CRUSHED ROCK OR ROUNDED RIVER ROCKS, CAREFULLY FLAGGED TO BLEND INTO THE SURROUNDING NATURAL CREEK BED OR BANK CONDITIONS. DISTURBANCE TO VEGETATION MUST BE MINIMIZED.
 - GEOTEXTILE SHALL BE NON-WOVEN TEXEL 060C OR APPROVED EQUIVALENT.
 - COORDINATES AND ELEVATIONS REFERENCE NAD 83 UTM ZONE 10. SURVEY BY ISL ENGINEERING DATED JULY 5, 2023.



BRIDGE ELEVATION
1:50

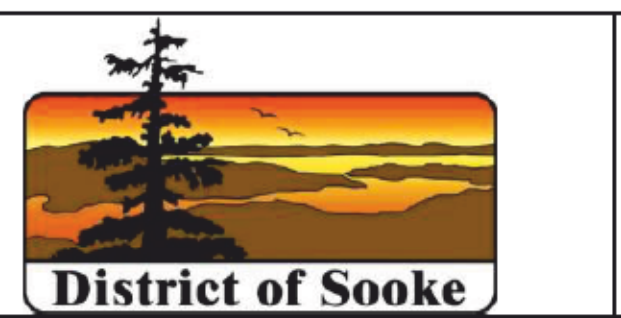
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RR Signature: [Signature]
RR EGBC ID: 161676
Date: 2024-10-16
Permit Number 1000419
Engineers & Geoscientists British Columbia

LOCALLY POSITION CLASS 100 RIPRAP AS DIRECTED BY THE DISTRICT REPRESENTATIVE SUCH THAT IT CAN ACT AS PART OF THE KEY FOR THE CLASS 50 RIPRAP ABOVE WHILE AVOIDING ANY IMPACT TO THE CREEK BELOW ITS EXTENT

ISSUED FOR TENDER DESIGN NO.

33549

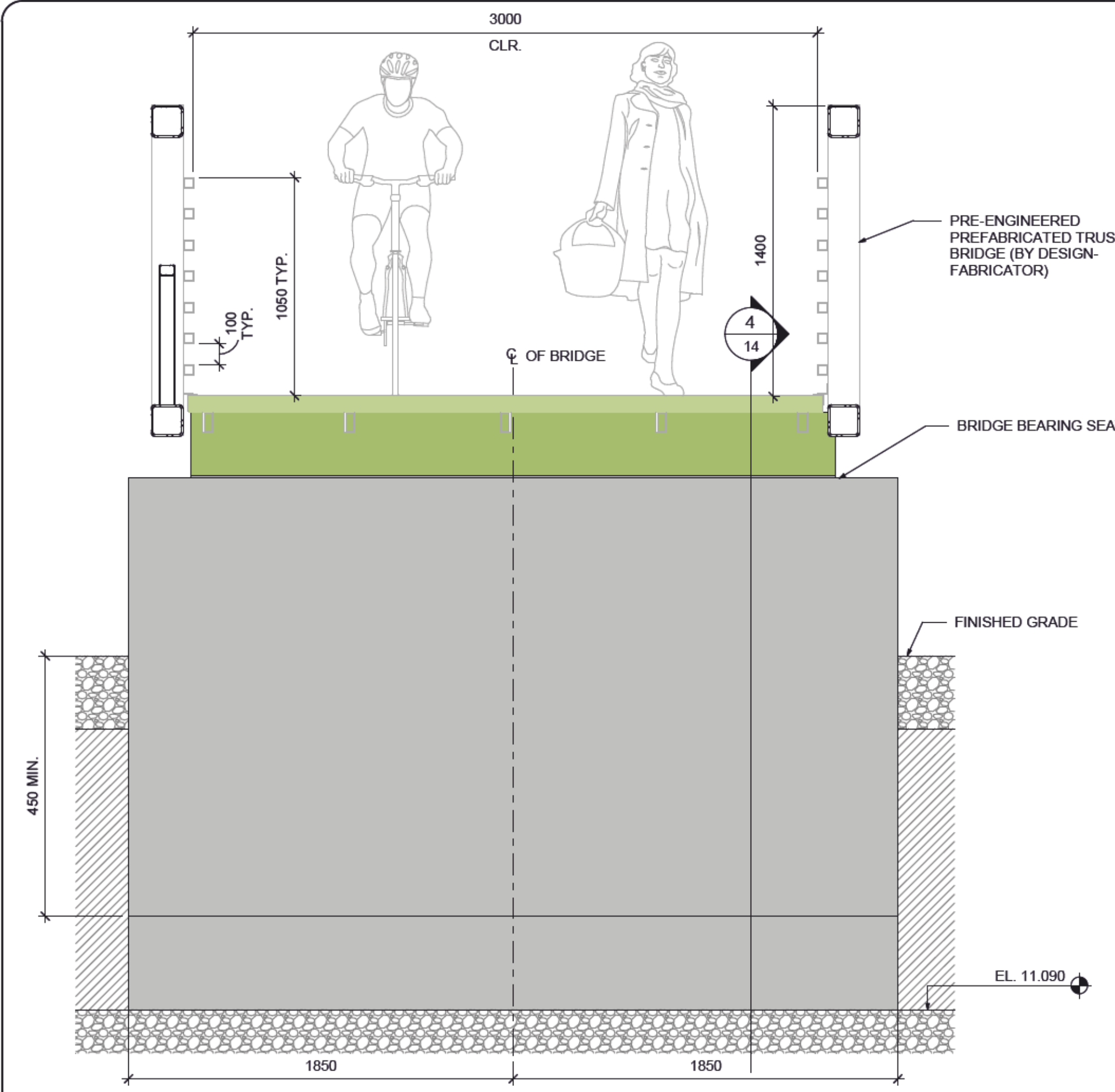
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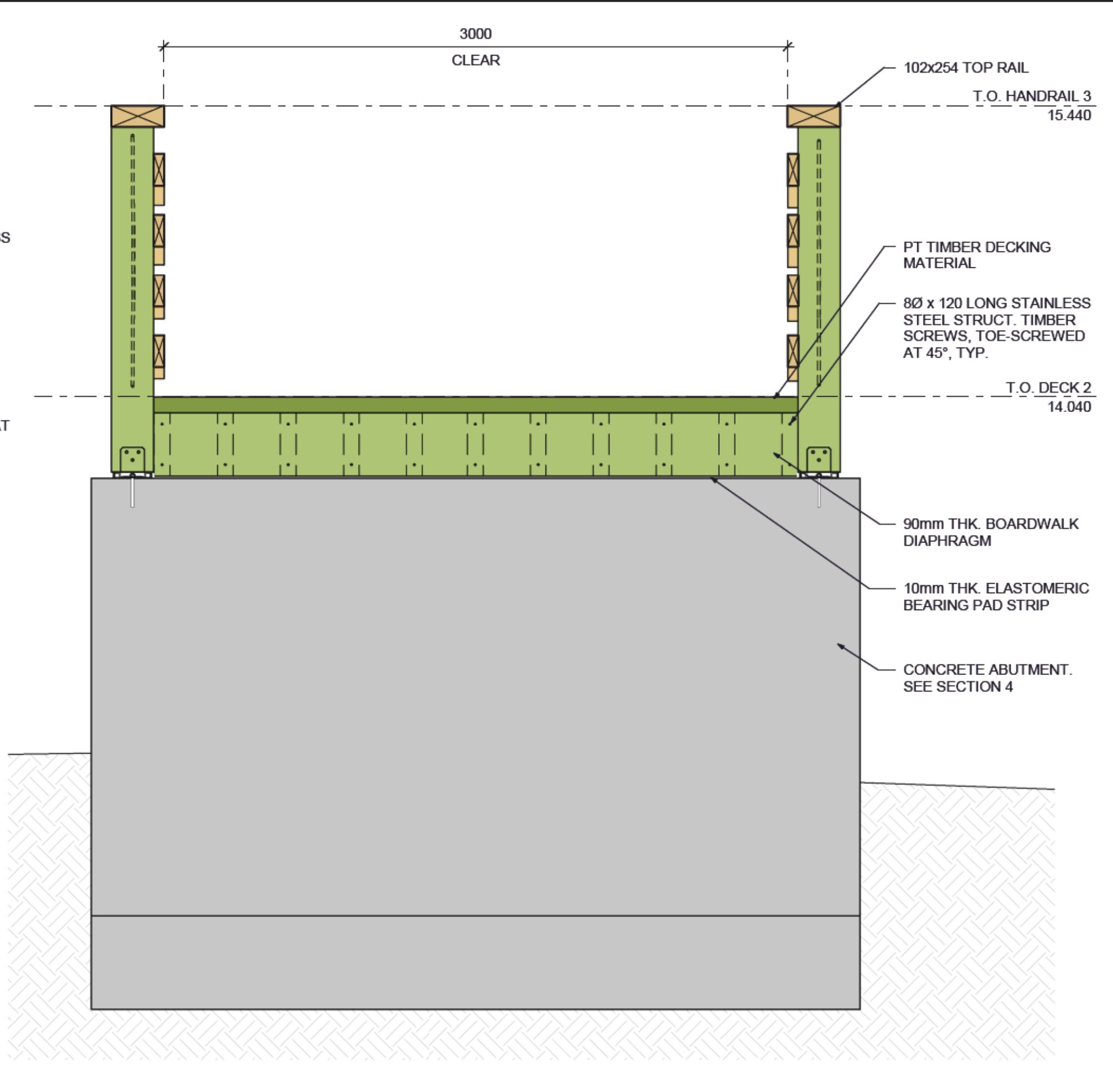
LITTLE RIVER PEDESTRIAN CROSSING
BRIDGE - GENERAL ARRANGEMENT



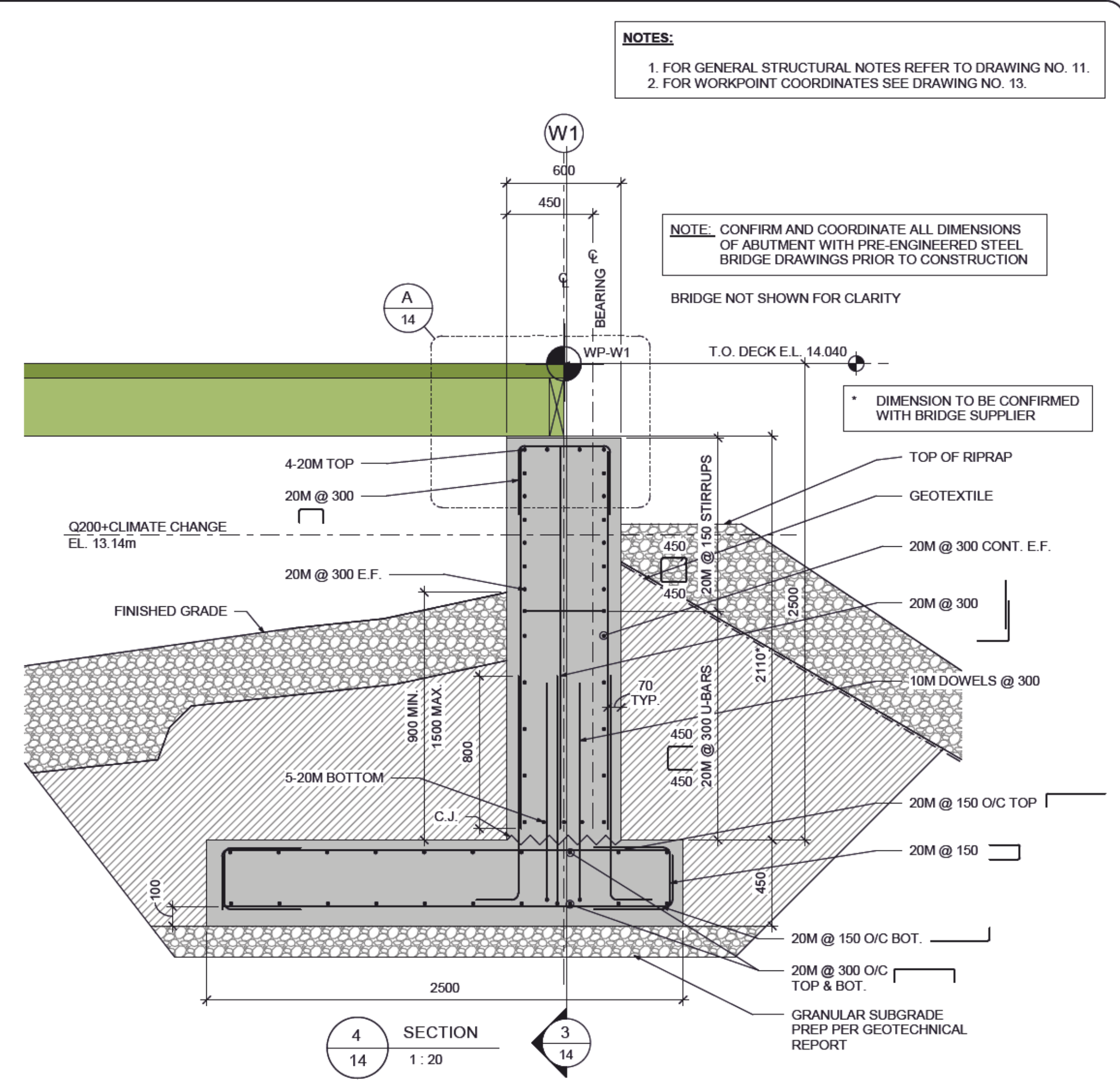
SCALE	As indicated	CREATION DATE	2024.10.09	DWG. NO.	13
DRAWN BY	JWC	DESIGNED BY	CKW	OF	20
CHECKED BY	BRR	APPROVED BY	BRR	REV.	C



2 ABUTMENT W1 ELEVATION (E1 SIMILAR)
14 1:20



3 TYPICAL ABUTMENT SECTION
14 1:20



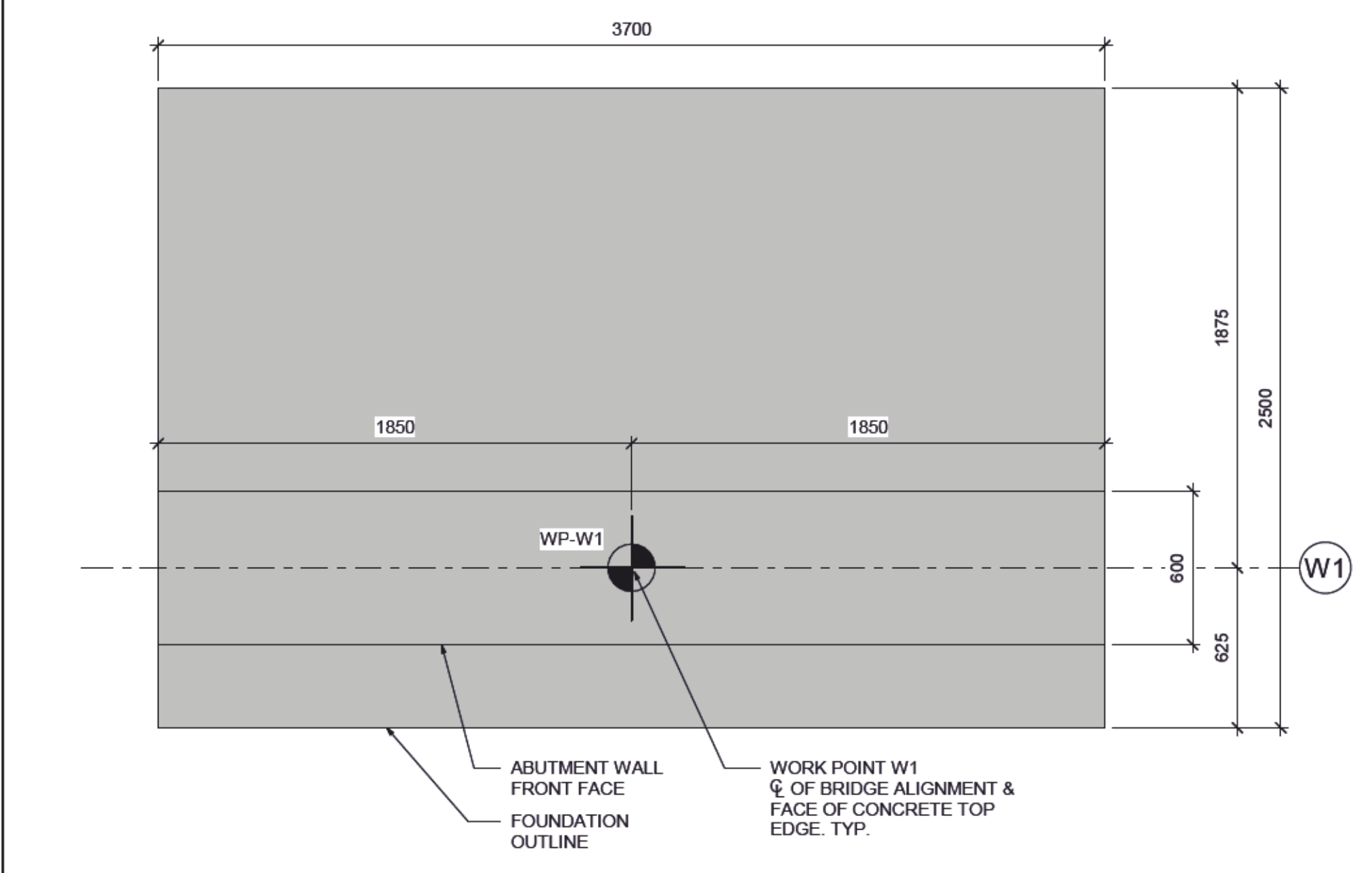
4 SECTION
14 1:20

NOTES:
1. FOR GENERAL STRUCTURAL NOTES REFER TO DRAWING NO. 11.
2. FOR WORKPOINT COORDINATES SEE DRAWING NO. 13.

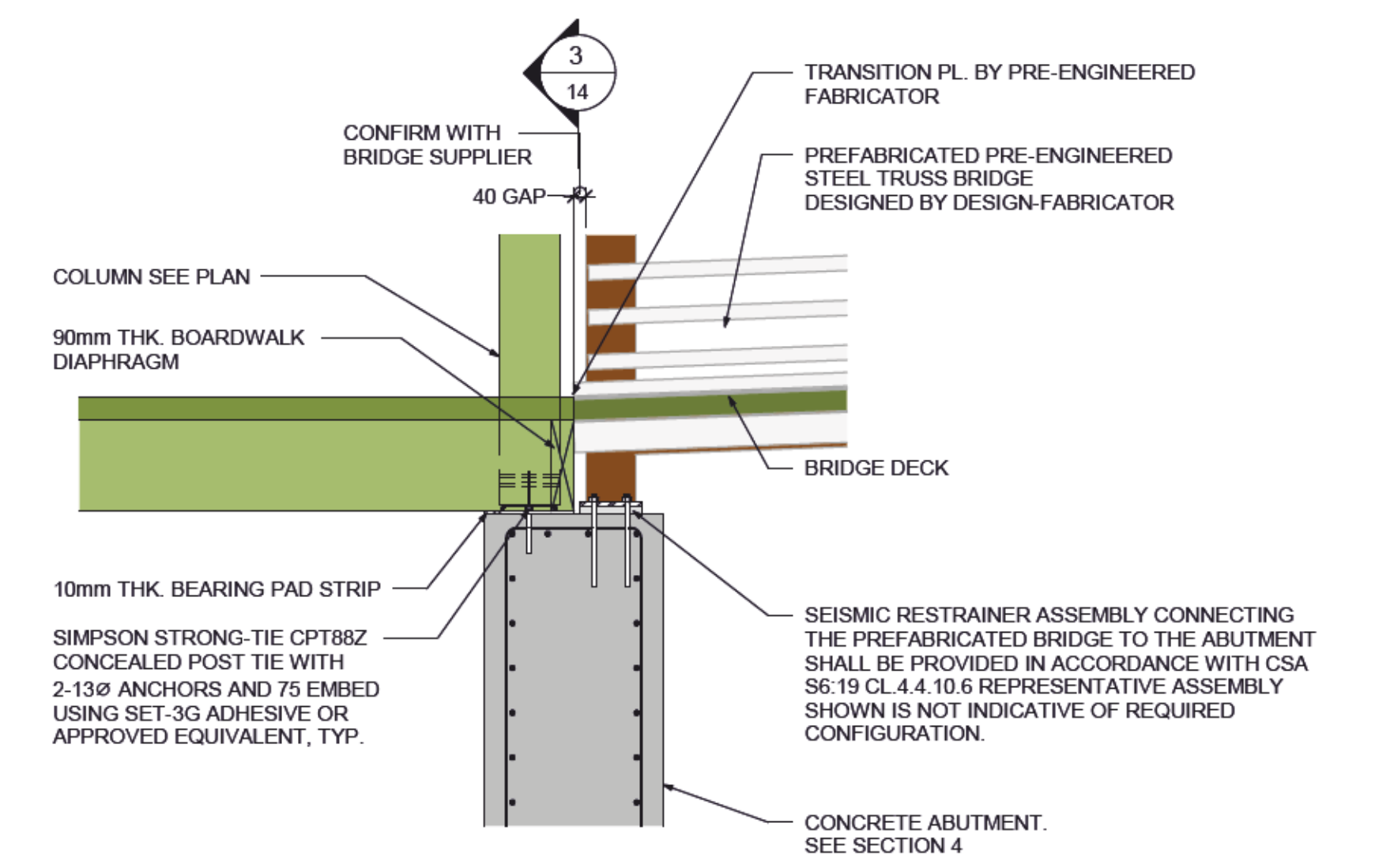
NOTE: CONFIRM AND COORDINATE ALL DIMENSIONS OF ABUTMENT WITH PRE-ENGINEERED STEEL BRIDGE DRAWINGS PRIOR TO CONSTRUCTION

BRIDGE NOT SHOWN FOR CLARITY

DIMENSION TO BE CONFIRMED WITH BRIDGE SUPPLIER



1 ABUTMENT W1 PLAN (E1 SIMILAR)
14 1:20



A TRANSITION DETAIL
14 1:20



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ISL Engineering and Land Services Ltd.
RR Signature: [Signature]
RR EGBC ID: 181676
Date: 2024-10-16
Permit Number 1000419
Engineers & Geoscientists British Columbia

33549

ISSUED FOR TENDER DESIGN NO.

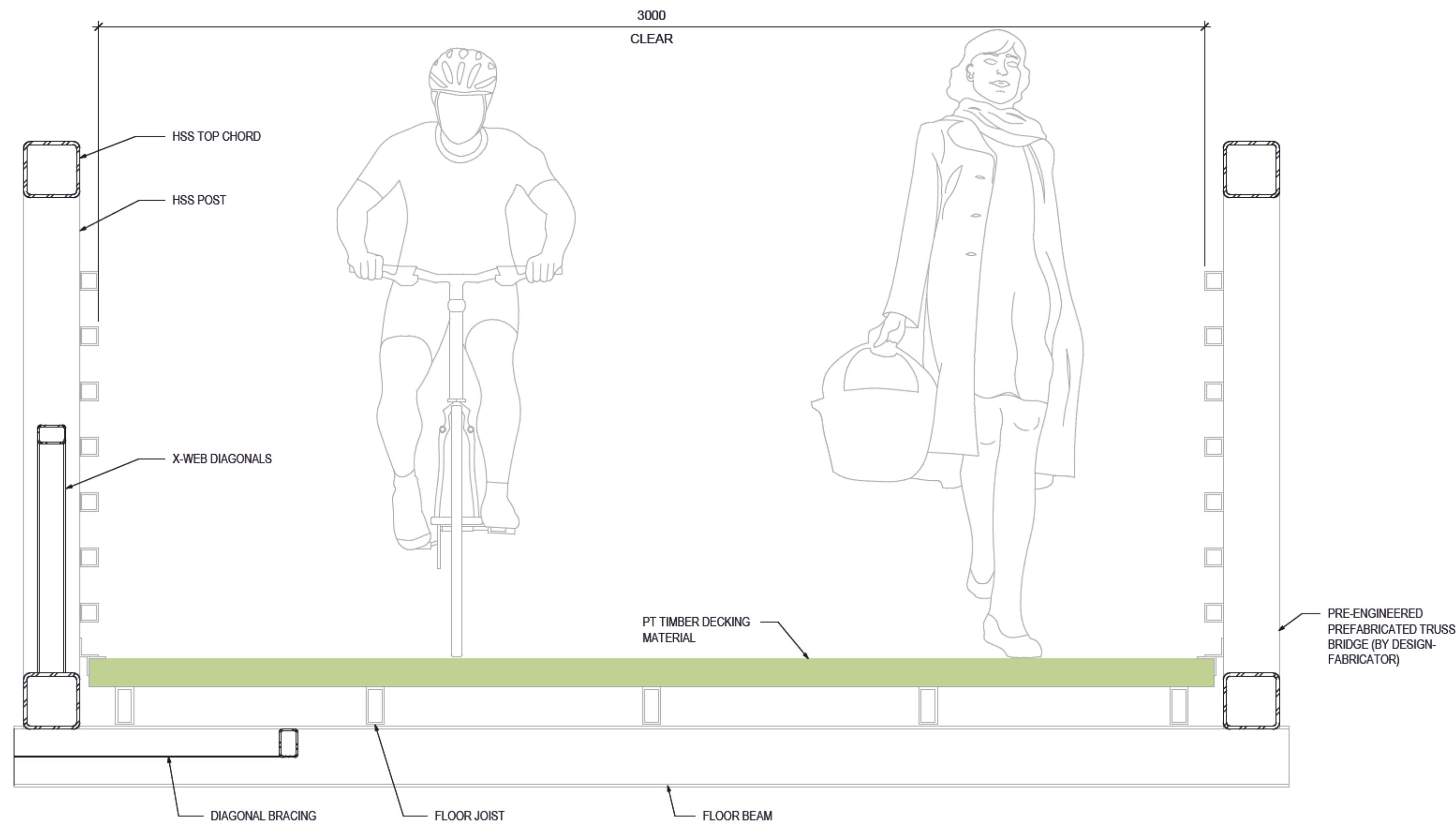
No.	REVISION DESCRIPTION	DATE	BY
A	ISSUED FOR REGULATORY APPROVAL	2023.12.13	CW
B	90% DETAILED DESIGN	2024.02.16	CW
C	100% DETAILED DESIGN	2024.10.09	BRR
D	ISSUED FOR TENDER	2024.10.16	BRR



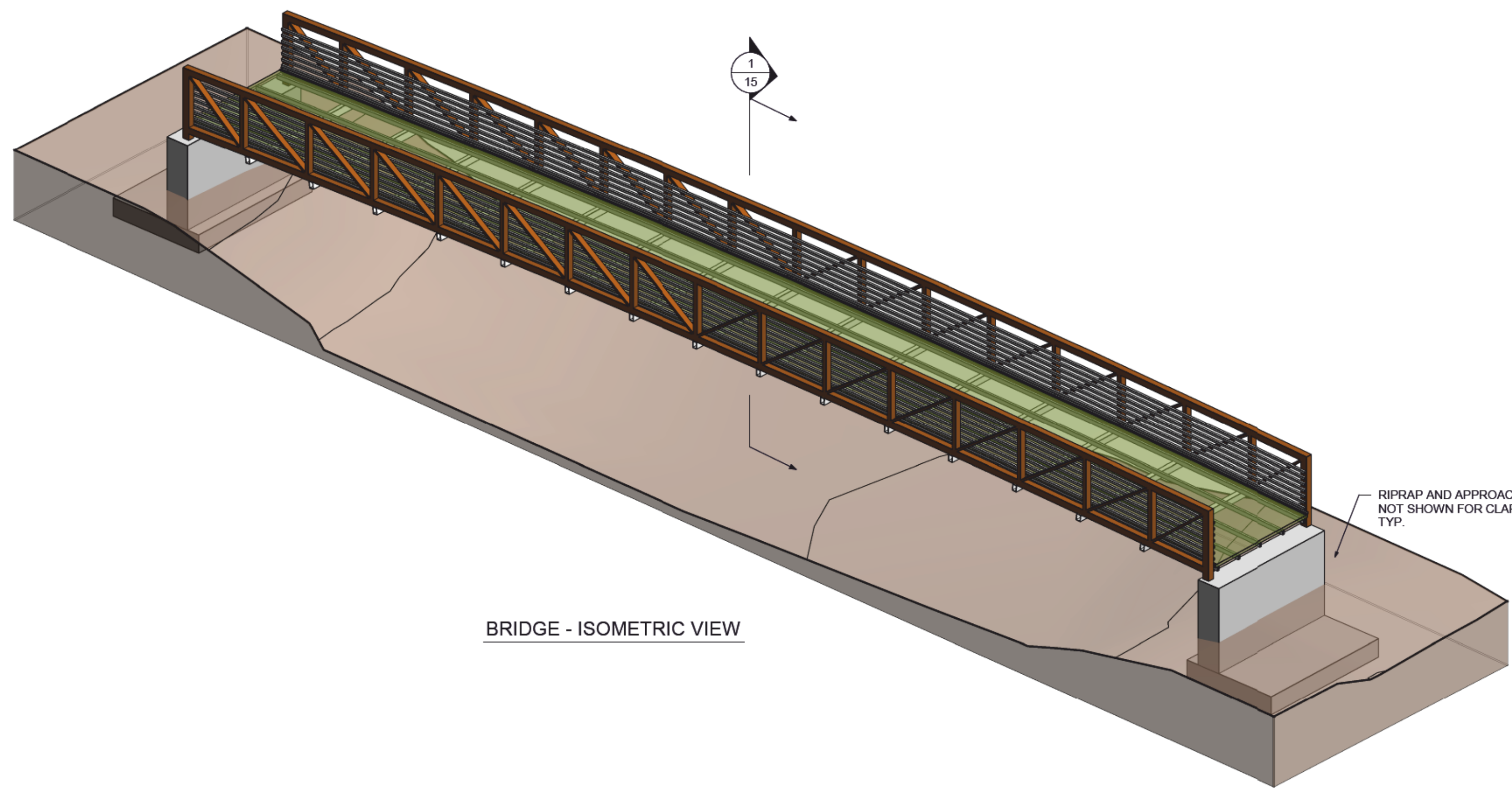
LITTLE RIVER PEDESTRIAN CROSSING
BRIDGE - ABUTMENT SECTIONS & DETAILS



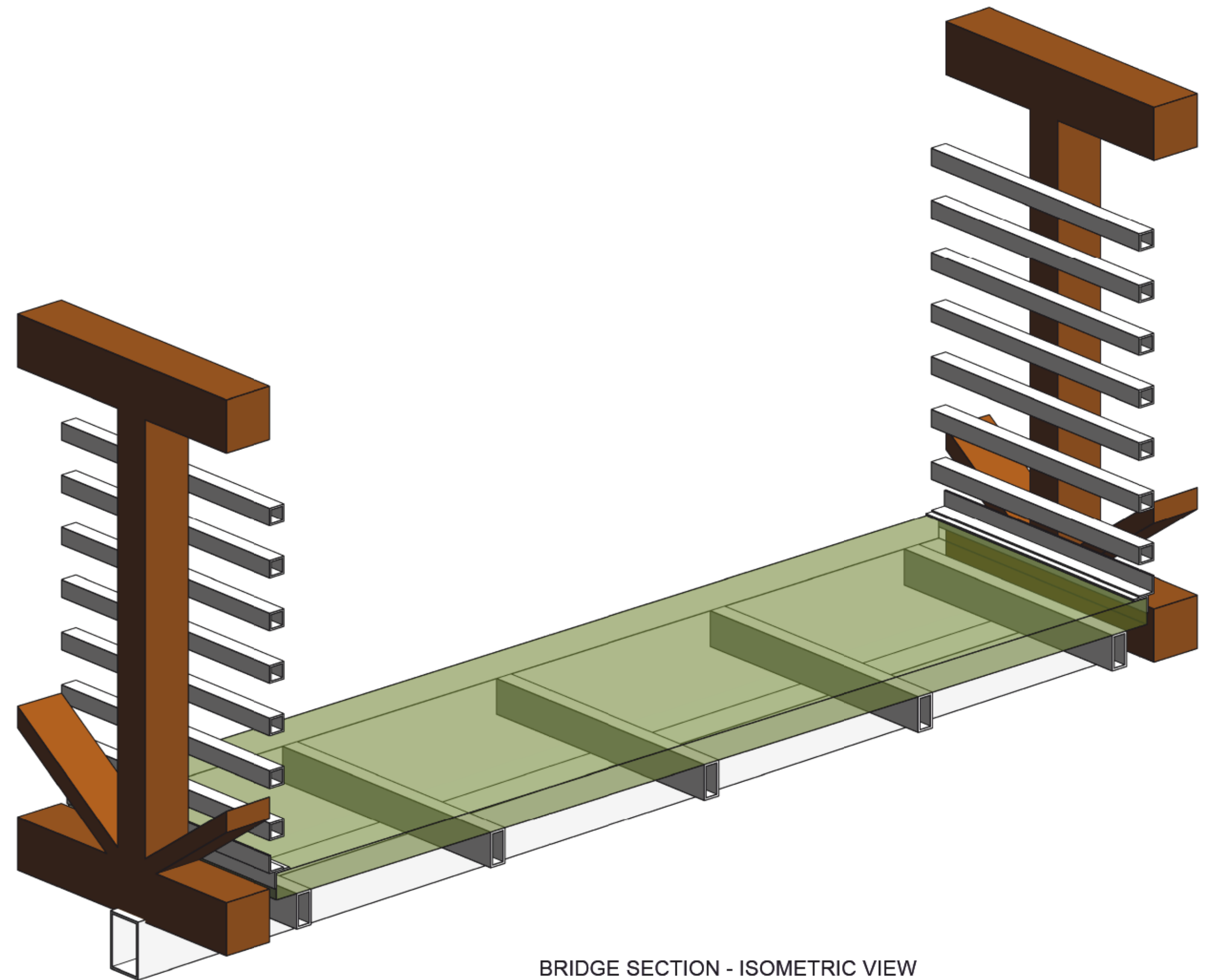
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DRAWN BY	JWC	DESIGNED BY	HWY	OF	20
CHECKED BY	BRR	APPROVED BY	BRR	REV.	C



1
15
BRIDGE - TYPICAL SECTION
1:10



BRIDGE - ISOMETRIC VIEW



BRIDGE SECTION - ISOMETRIC VIEW



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 RR EGBC ID: 181676
 Date: 2024-10-16
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No.	REVISION DESCRIPTION	DATE	BY
A	ISSUED FOR REGULATORY APPROVAL	2023.12.13	CW
B	90% DETAILED DESIGN	2024.02.16	CW
C	100% DETAILED DESIGN	2024.10.09	BRR
D	ISSUED FOR TENDER	2024.10.16	BRR

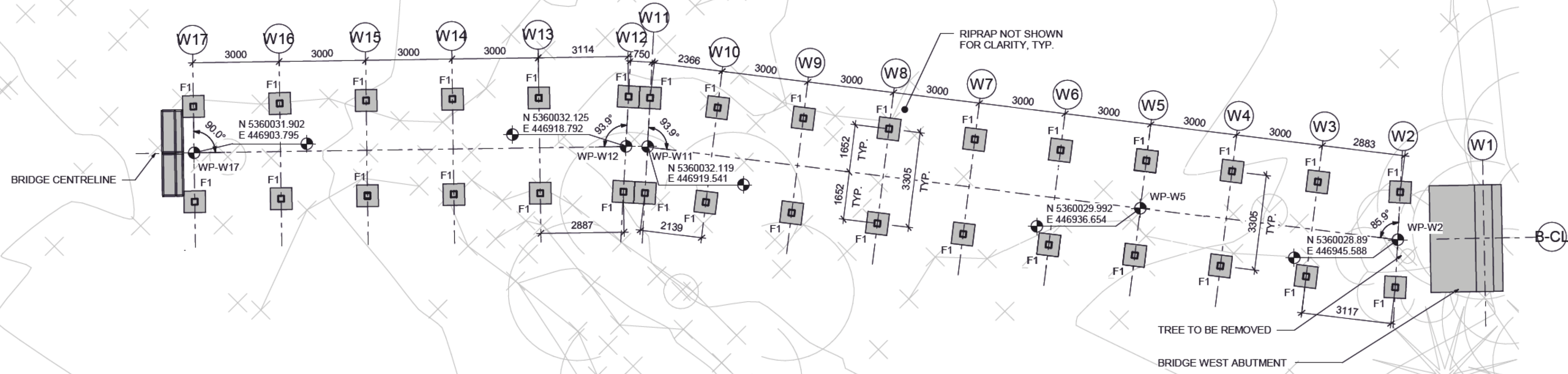
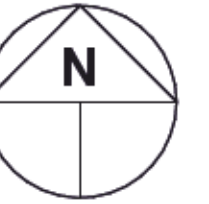


LITTLE RIVER PEDESTRIAN CROSSING
 BRIDGE - SECTIONS & DETAILS



SCALE	As indicated	CREATION DATE	2024.10.09	DWG. NO.	15
DRAWN BY	JWC	DESIGNED BY	JRG	OF	20
CHECKED BY	BRR	APPROVED BY	BRR	REV.	C

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1 WEST BOARDWALK/ RAMP - FOUNDATION PLAN
16 1: 100

WORK POINT TABLE			
WORKPOINT	NORTHING	EASTING	ELEVATION
WP-W2	5360028.890	446945.588	14.010
WP-W5	5360029.992	446936.654	13.920
WP-W11	5360032.119	446919.541	13.747
WP-W12	5360032.125	446918.792	13.700
WP-W17	5360031.902	446903.795	12.646

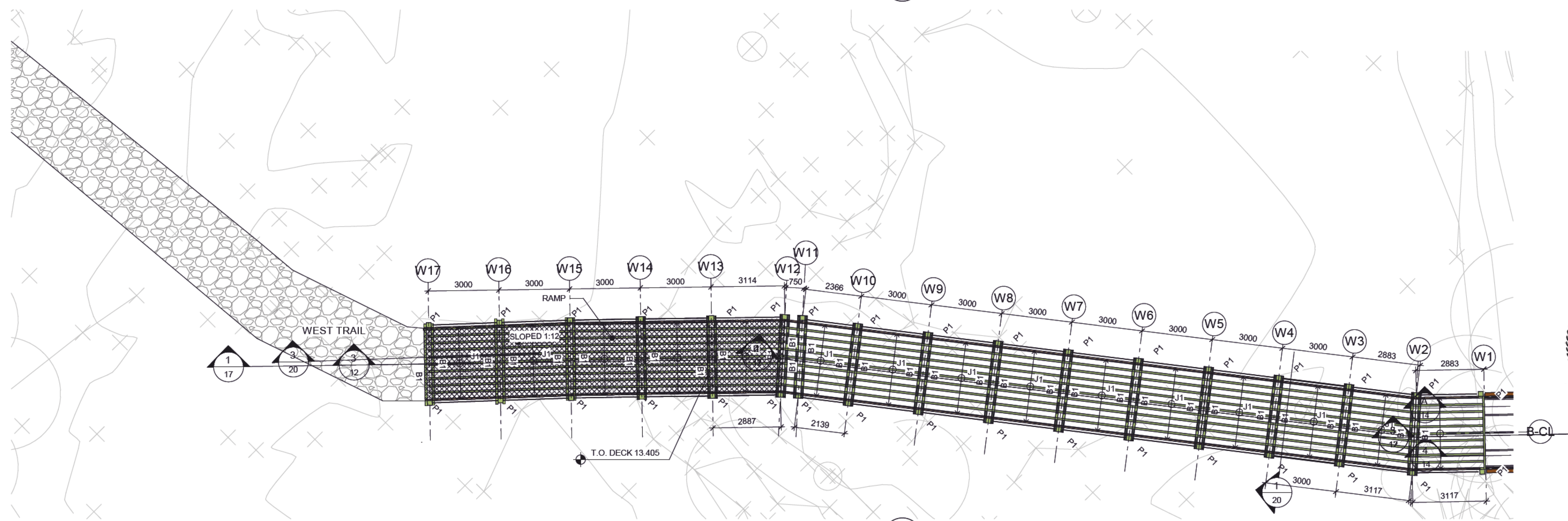
WOOD COLUMN SCHEDULE	
TYPE	DESCRIPTION
P1	203x203 RS. D.Fir

WOOD BEAM SCHEDULE	
TYPE	DESCRIPTION
B1	102x254 RS. P.T. D.Fir

JOIST SCHEDULE	
TYPE	DESCRIPTION
J1	75x305 SPF P.T @300 O/C

PAD FOOTING SCHEDULE	
TYPE	DESCRIPTION
F1	750x750x750 ONE-CROSS FLAT LOCK-BLOCK TAGGED 30 MPa

BOARDWALK PIER BENT BAYLINE SPACING MAY BE ADJUSTED DURING CONSTRUCTION IF REQUIRED BASED ON FIELD CONDITIONS. CONTRACTOR TO SUBMIT PROPOSED PLAN FOR ENGINEER'S APPROVAL.



2 WEST BOARDWALK/ RAMP - FRAMING PLAN
16 1: 100



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RR Signature: [Signature]
RR EGBC ID: 161676
Date: 2024-10-16
Permit Number 1000419
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No.	REVISION DESCRIPTION	DATE	BY
A	ISSUED FOR REGULATORY APPROVAL	2023.12.13	CW
B	90% DETAILED DESIGN	2024.02.16	CW
C	100% DETAILED DESIGN	2024.10.09	BRR
D	ISSUED FOR TENDER	2024.10.16	BRR



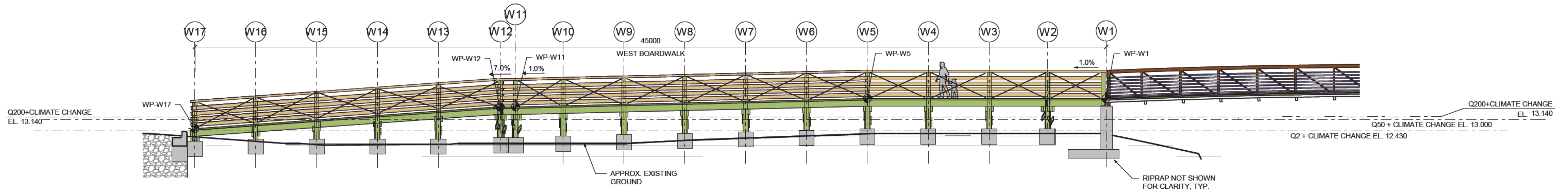
LITTLE RIVER PEDESTRIAN CROSSING
WEST BOARDWALK - GENERAL ARRANGEMENT



SCALE	As indicated	CREATION DATE	2024.10.09	DWG. NO.	16
DRAWN BY	JWC	DESIGNED BY	CKW	OF	20
CHECKED BY	BRR	APPROVED BY	BRR	REV.	C

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WEST BOARDWALK - ELEVATION
1 : 100



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RR Signature: *[Signature]*
RR EGBC ID: 161678
Date: 2024-10-16
Permit Number 1000419
Engineers & Geoscientists British Columbia

ISSUED FOR TENDER DESIGN NO.

33549

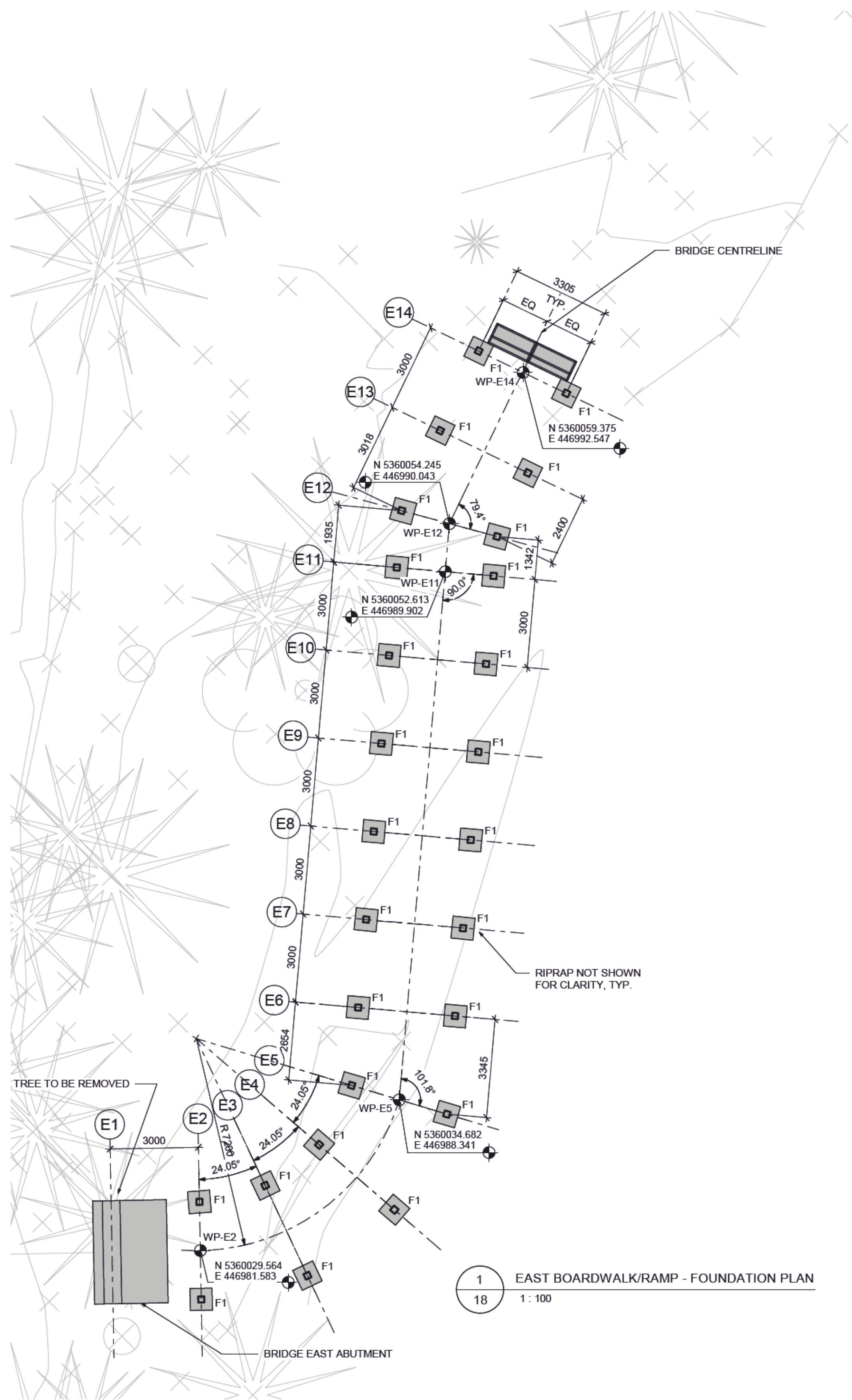
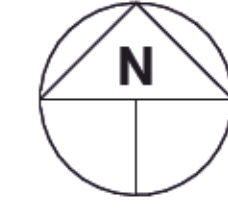
No.	REVISION DESCRIPTION	DATE	BY
A	ISSUED FOR REGULATORY APPROVAL	2023.12.13	CW
B	90% DETAILED DESIGN	2024.02.16	CW
C	100% DETAILED DESIGN	2024.10.09	BRR
D	ISSUED FOR TENDER	2024.10.16	BRR



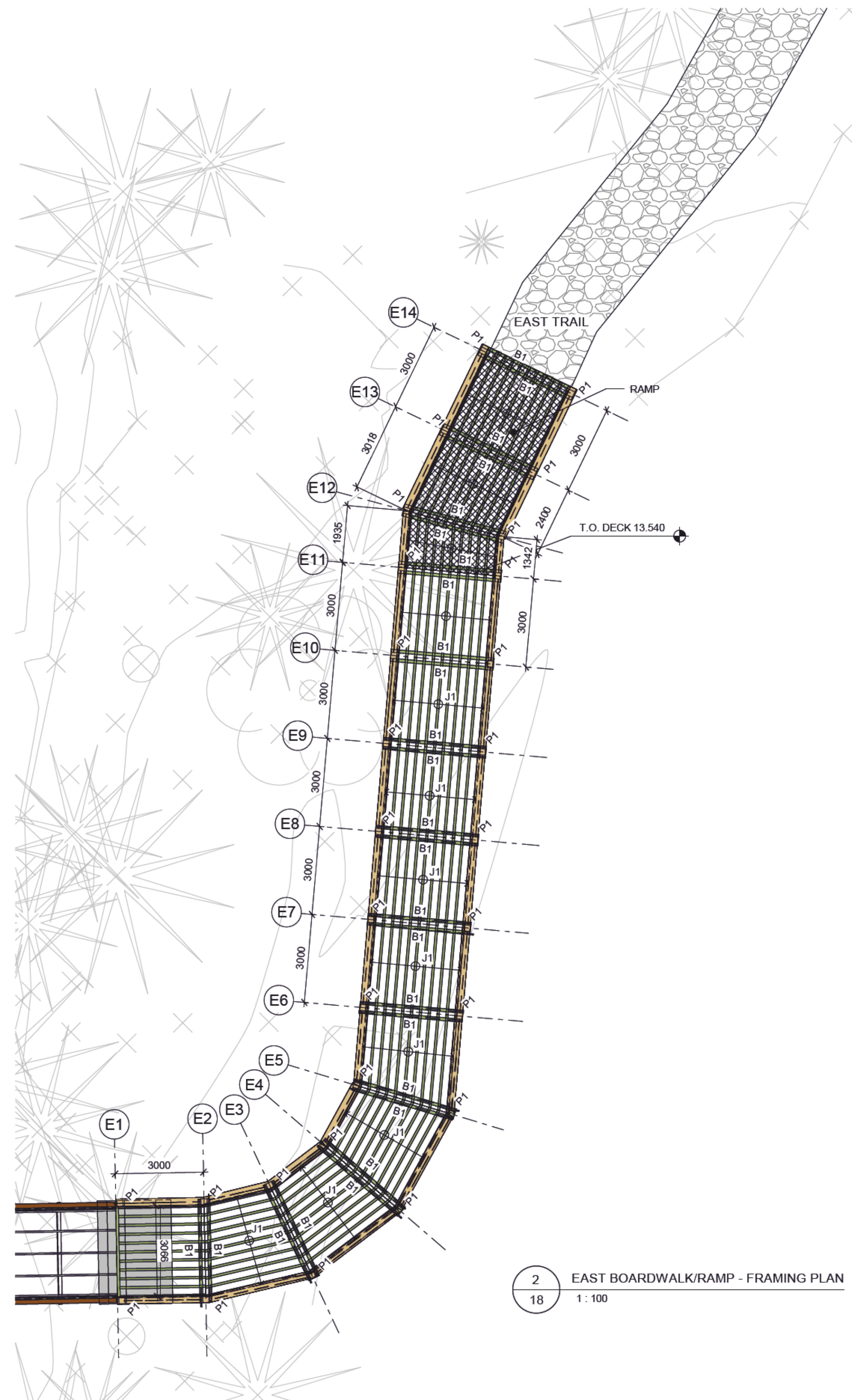
LITTLE RIVER PEDESTRIAN CROSSING
WEST BOARDWALK - ELEVATION



SCALE	1 : 100	CREATION DATE	2024.10.09	DWG. NO.	17
DRAWN BY	JWC	DESIGNED BY	JRG	OF	20
CHECKED BY	BRR	APPROVED BY	BRR	REV.	C



1 EAST BOARDWALK/RAMP - FOUNDATION PLAN
18 1:100



2 EAST BOARDWALK/RAMP - FRAMING PLAN
18 1:100

WORK POINT TABLE			
WORKPOINT	NORTHING	EASTING	ELEVATION
WP-E2	5360029.564	446981.583	14.010
WP-E5	5360034.682	446988.341	13.920
WP-E11	5360052.613	446989.902	13.740
WP-E12	5360054.245	446990.043	13.630
WP-E14	5360059.375	446992.547	13.040

WOOD COLUMN SCHEDULE	
TYPE	DESCRIPTION
P1	203x203 RS. D. Fir

WOOD BEAM SCHEDULE	
TYPE	DESCRIPTION
B1	102x254 RS. P.T. D. Fir

JOIST SCHEDULE	
TYPE	DESCRIPTION
J1	75x305 SPF P.T @300 O/C

PAD FOOTING SCHEDULE	
TYPE	DESCRIPTION
F1	750x750x750 ONE-CROSS FLAT LOCK-BLOCK TAGGED 30 MPa

BOARDWALK PIER BENT BAYLINE SPACING MAY BE ADJUSTED DURING CONSTRUCTION IF REQUIRED BASED ON FIELD CONDITIONS. CONTRACTOR TO SUBMIT PROPOSED PLAN FOR ENGINEER'S APPROVAL.



Permit to Practice
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RR Signature: 161676
RR E/GBC ID: 2024-10-16
Date: 2024-10-16
Permit Number 1000419
Engineers & Geoscientists British Columbia

2024-10-16

ISSUED FOR TENDER DESIGN NO.

33549

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No.	REVISION DESCRIPTION	DATE	BY
A	ISSUED FOR REGULATORY APPROVAL	2023.12.13	CW
B	90% DETAILED DESIGN	2024.02.16	CW
C	100% DETAILED DESIGN	2024.10.09	BRR
D	ISSUED FOR TENDER	2024.10.16	BRR



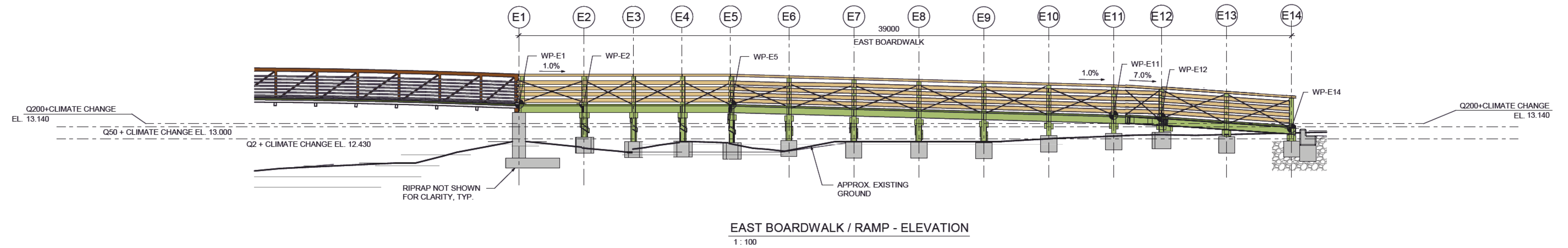
LITTLE RIVER PEDESTRIAN CROSSING

EAST BOARDWALK - GENERAL ARRANGEMENT



SCALE	As indicated	CREATION DATE	2024.10.09	DWG. NO.	18
DRAWN BY	JWC	DESIGNED BY	CKW	OF	20
CHECKED BY	BRR	APPROVED BY	BRR	REV.	C

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2024-10-16

Permit to Practice
 ISL Engineering and Land Services Ltd.
 RR Signature: _____
 RR EGBC ID: 161676
 Date: 2024-10-16
Permit Number 1000419
 Engineers & Geoscientists British Columbia

ISSUED FOR TENDER DESIGN NO.

33549

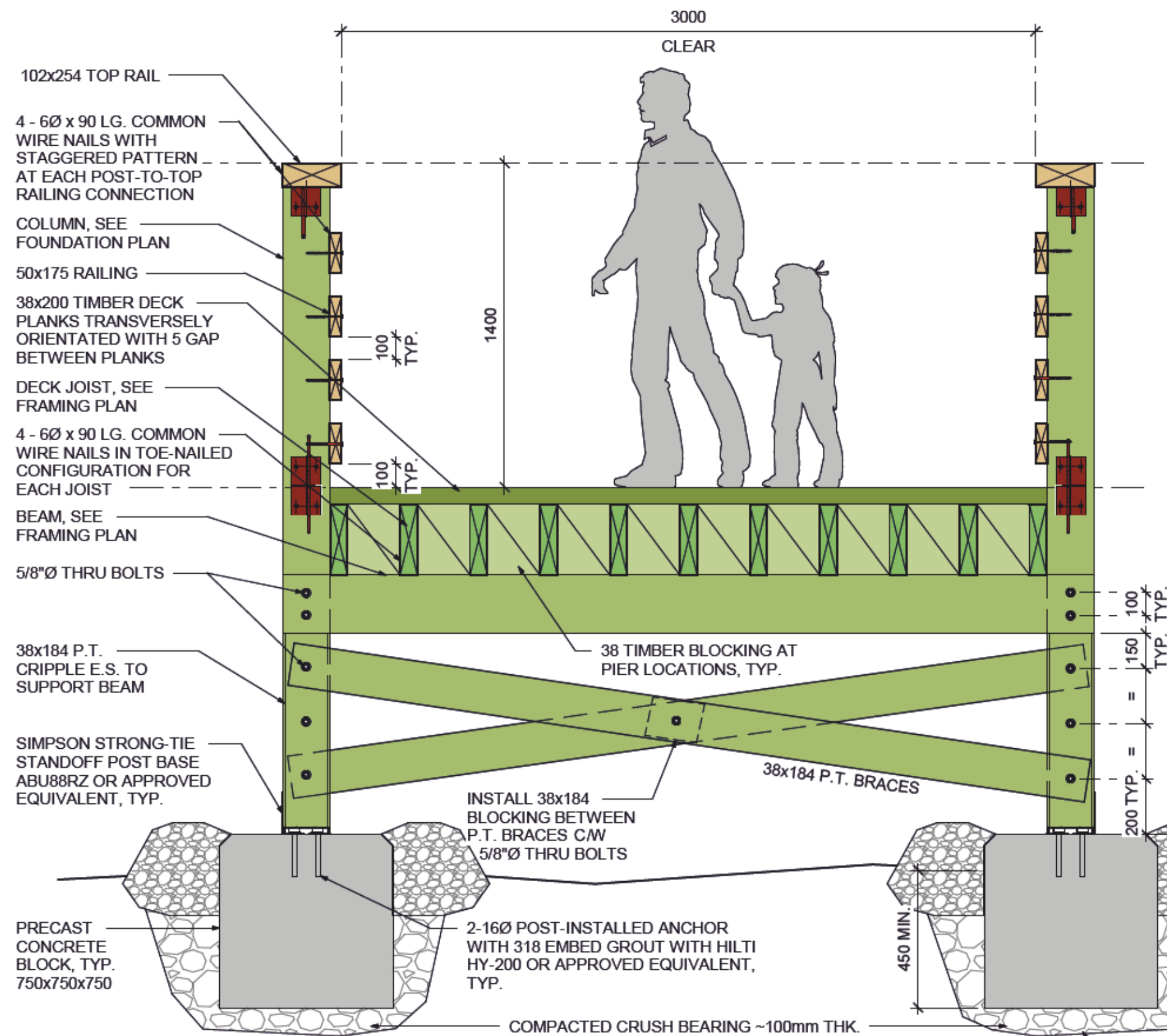
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A	ISSUED FOR REGULATORY APPROVAL	2023.12.13	CW
B	90% DETAILED DESIGN	2024.02.16	CW
C	100% DETAILED DESIGN	2024.10.09	BRR
D	ISSUED FOR TENDER	2024.10.16	BRR



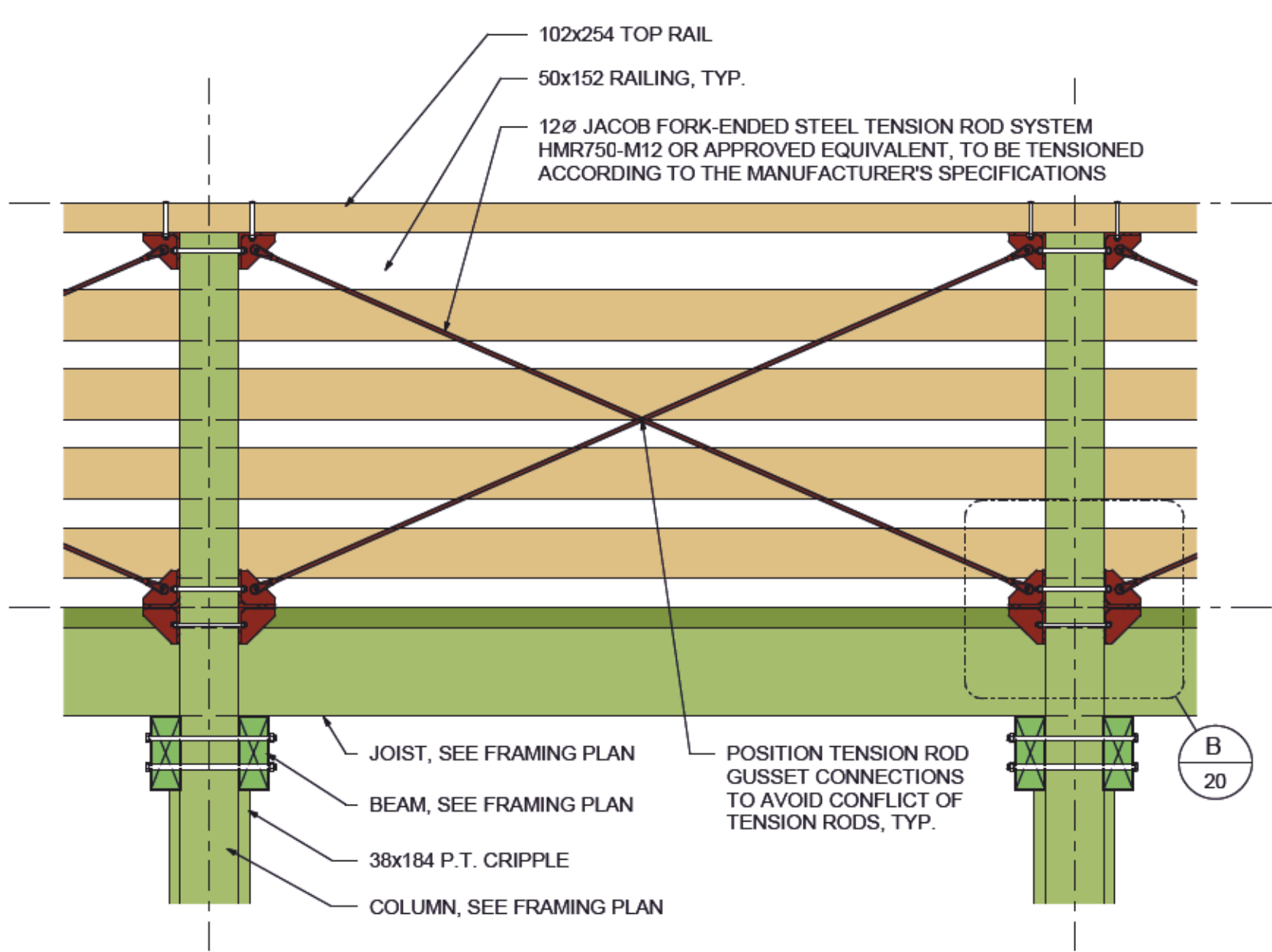
LITTLE RIVER PEDESTRIAN CROSSING
EAST BOARDWALK - ELEVATION



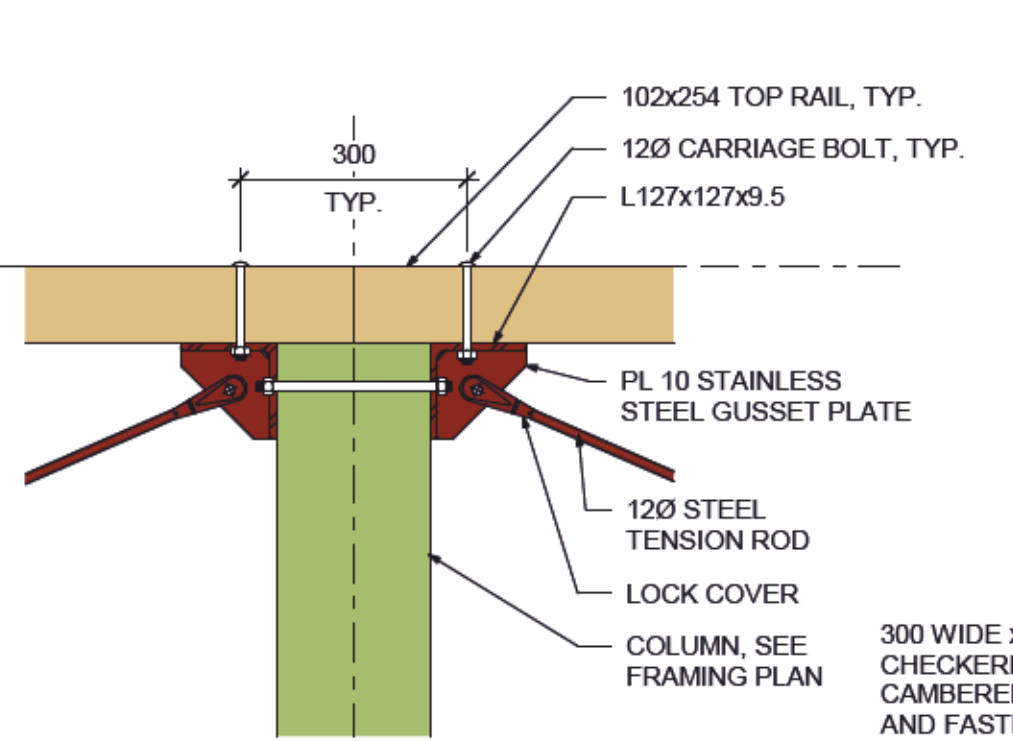
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DRAWN BY	JWC	DESIGNED BY	JRG	19
CHECKED BY	BRR	APPROVED BY	BRR	20
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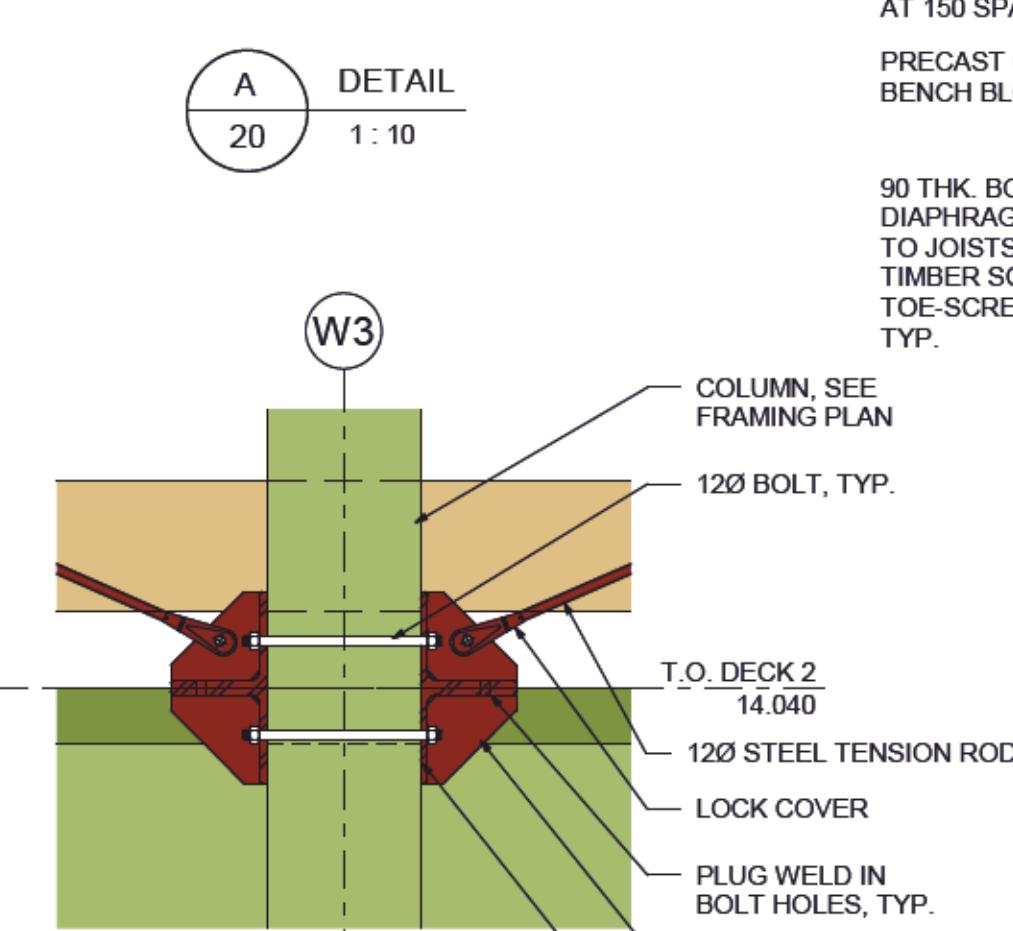
1 TYPICAL BOARDWALK SECTION
20 1:20



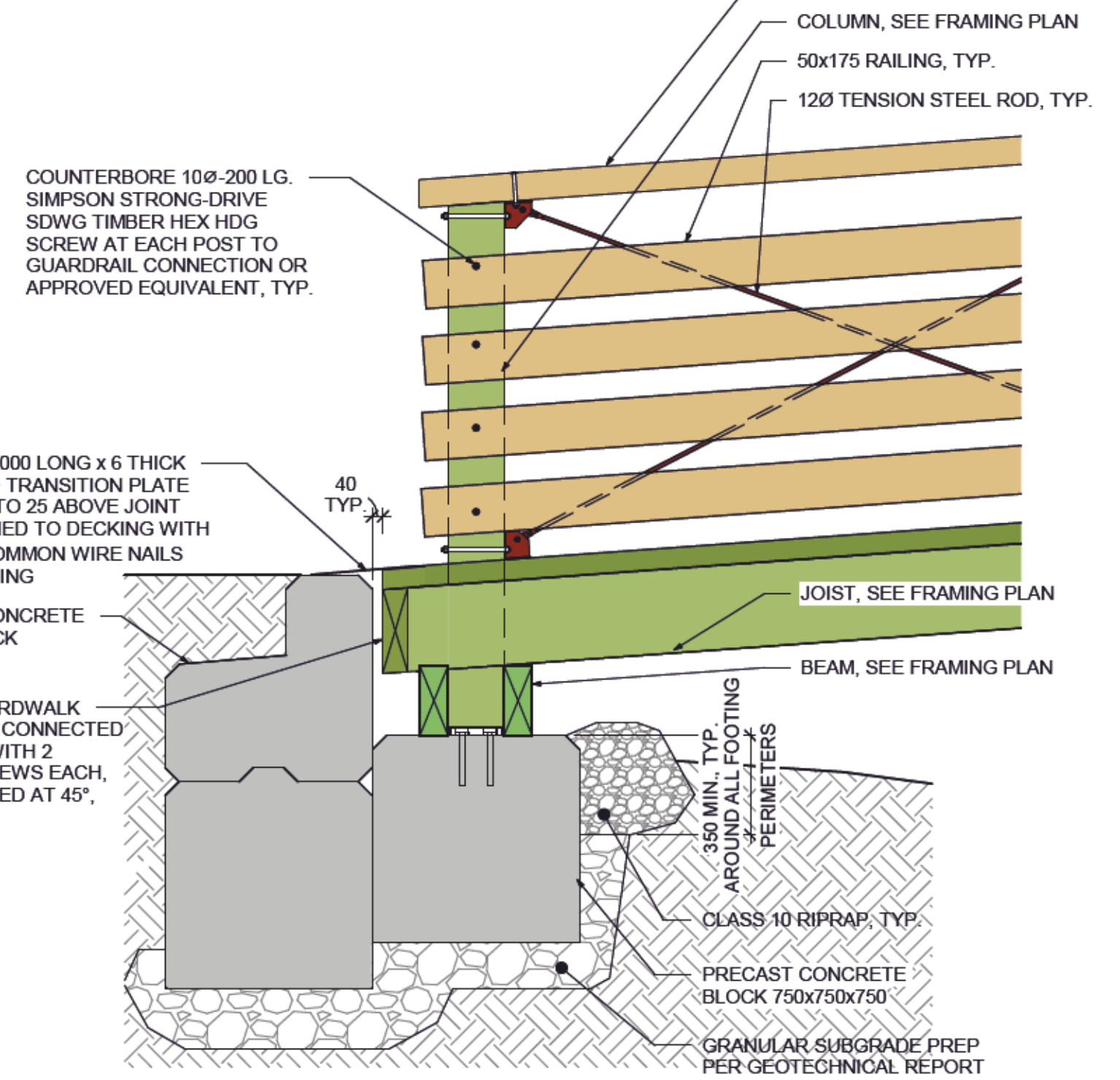
2 BOARDWALK - TYPICAL ELEVATION
20 1:20



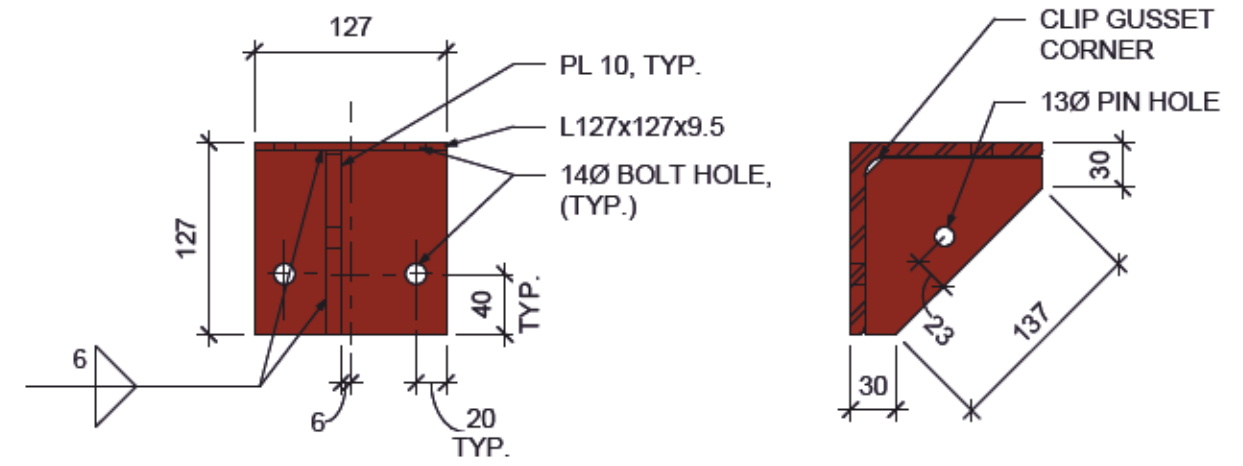
A DETAIL
20 1:10



B DETAIL
20 1:10



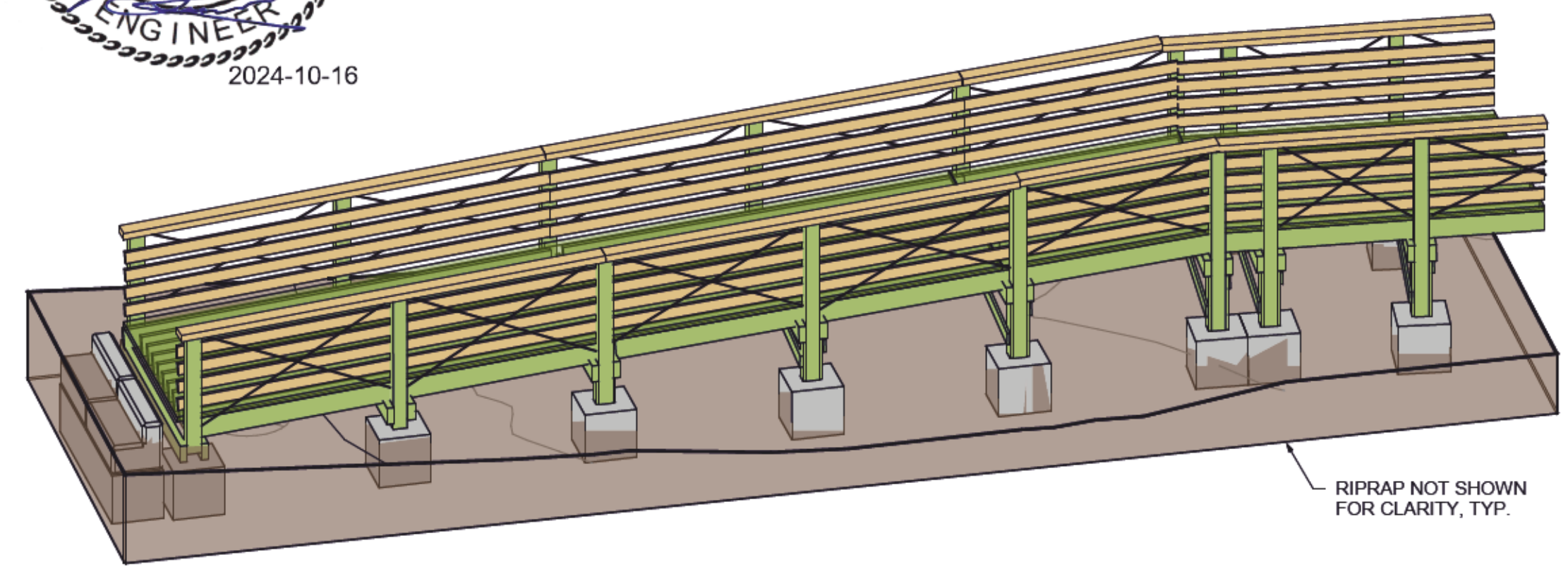
3 TYPICAL END RAMP DETAIL
20 1:20



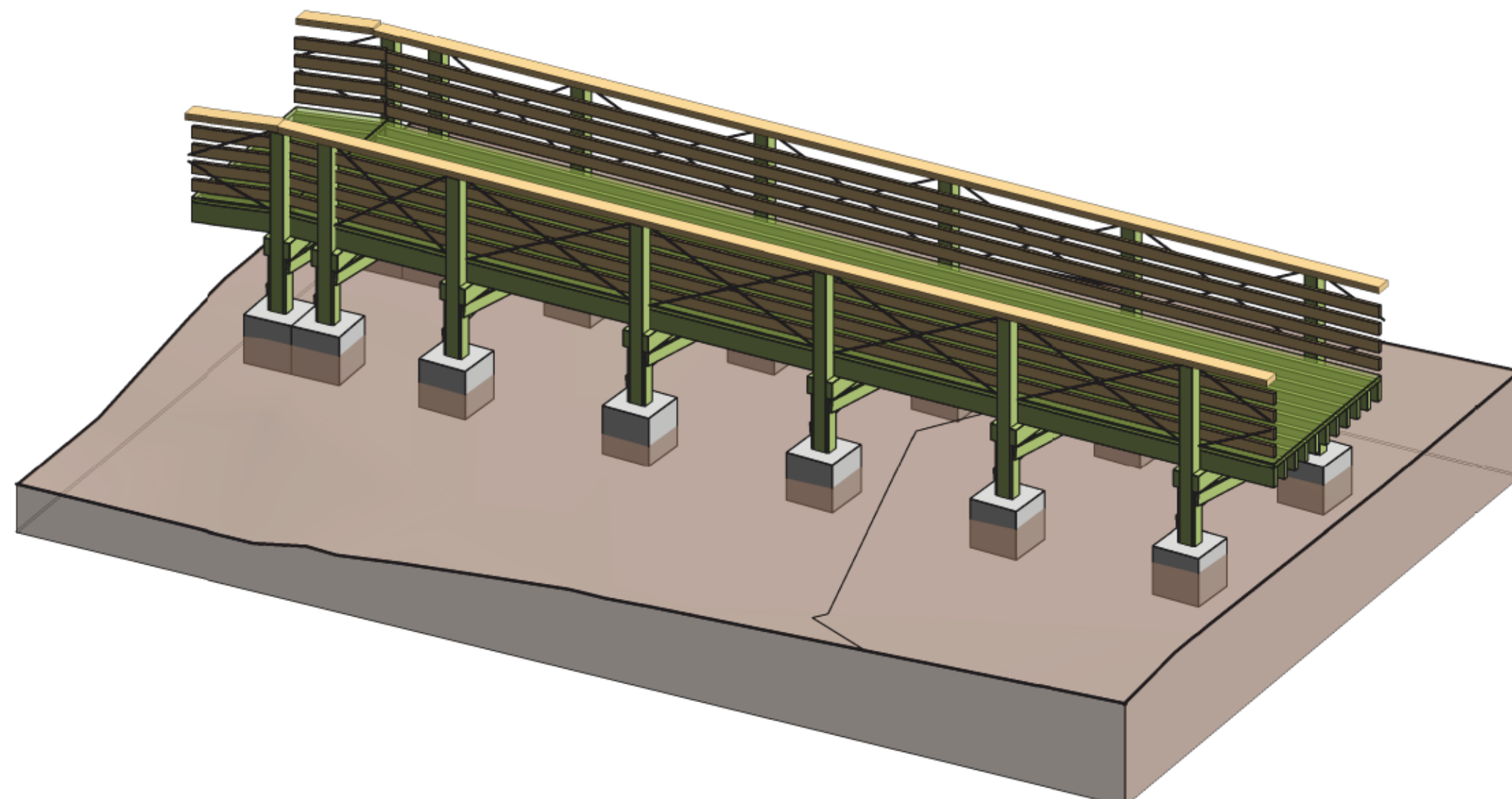
C GUSSET DETAIL
20 1:5



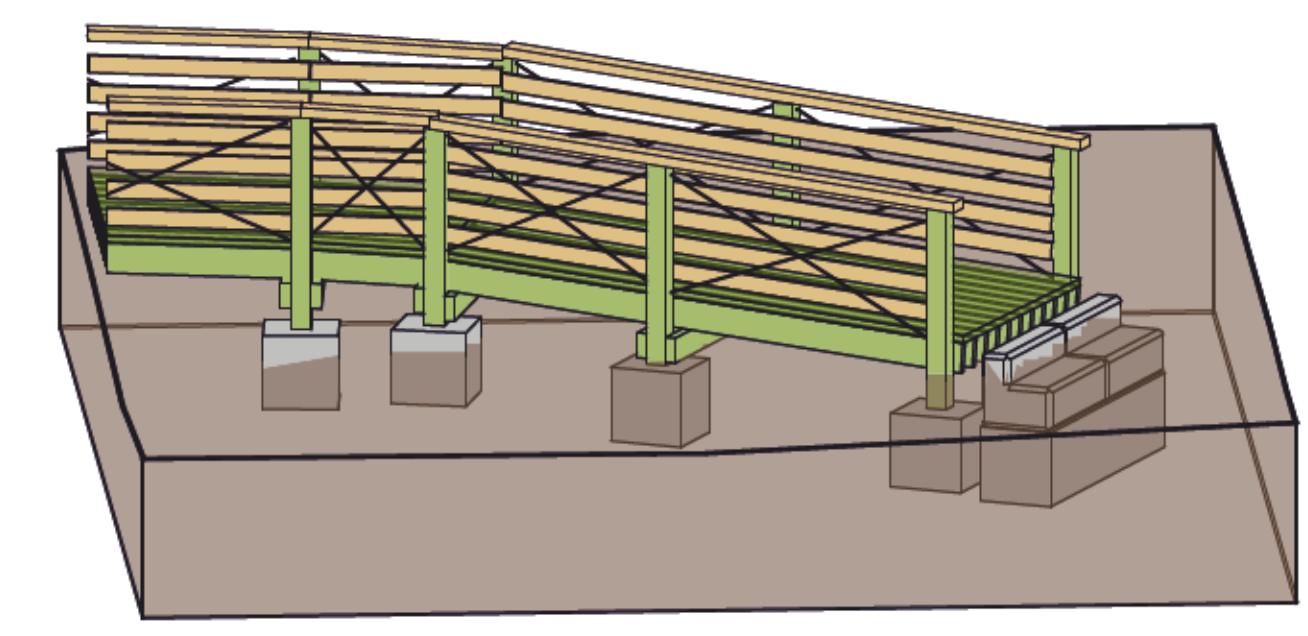
Permit to Practice
ISL Engineering and Land Services Ltd.
RR Signature: [Signature]
RR EGBC ID: 181878
Date: 2024-10-16
Permit Number 1000419
Engineers & Geoscientists British Columbia



RAMP @ WEST BOARDWALK



BOARDWALK - ISOMETRIC VIEW



RAMP @ EAST BOARDWALK

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No.	REVISION DESCRIPTION	DATE	BY
A	ISSUED FOR REGULATORY APPROVAL	2023.12.13	CW
B	90% DETAILED DESIGN	2024.02.16	CW
C	100% DETAILED DESIGN	2024.10.09	BRR
D	ISSUED FOR TENDER	2024.10.16	BRR



LITTLE RIVER PEDESTRIAN CROSSING

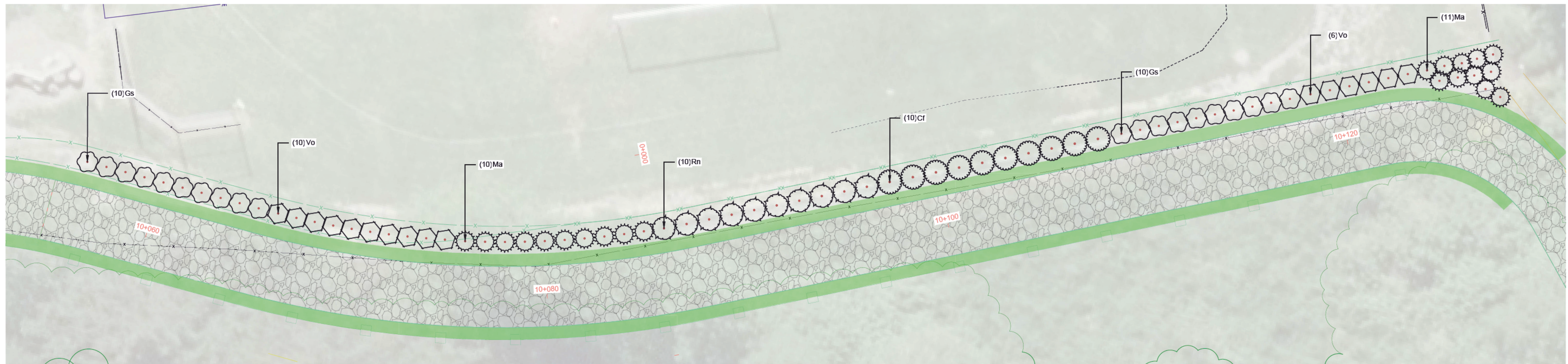
BOARDWALK - SECTIONS & DETAILS



ISSUED FOR TENDER DESIGN NO.

33549

SCALE	As indicated	CREATION DATE	2024.10.09	DWG. NO.
DRAWN BY	JWC	DESIGNED BY	JRG	20
CHECKED BY	BRR	APPROVED BY	BRR	20
				REV. C



1 PLANTING PLAN
L01 PLAN

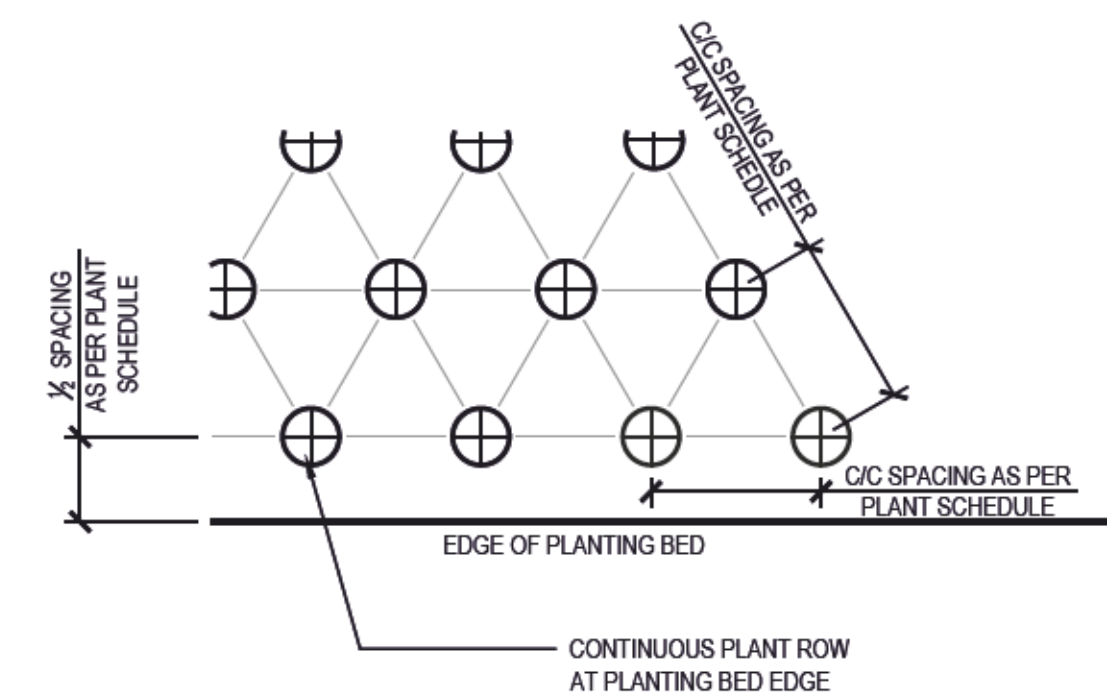
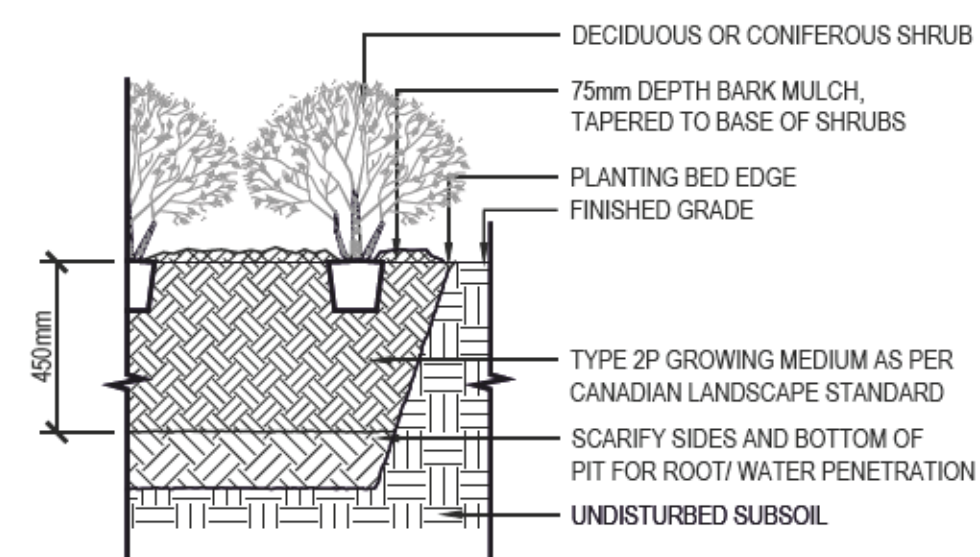
SCALE 1:100

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
SHRUBS						
	Cr	10	Cornus stolonifera 'Farrow'	Arctic Fire® Red Twig Dogwood	#3 Pot	1.2 m
	Gs	20	Gaultheria shallon	Salal	#3 Pot	1 m
	Ma	21	Mahonia aquifolium	Oregon Grape	#3 Pot	1 m
	Rn	10	Rosa nutkana	Nootka Rose	#3 Pot	1.2 m
	Vo	16	Vaccinium ovatum	Evergreen Huckleberry	#3 Pot	1 m

LANDSCAPE NOTES

- SOFT LANDSCAPE SUPPLY, SUBMITTALS, PREPARATION AND EXECUTION TO COMPLY WITH CANADIAN LANDSCAPE STANDARD (BRITISH COLUMBIA). FULL DOCUMENT APPLIES.
- PLANTS:
 - PROVIDE CONSULTANT WITH OPPORTUNITY TO REVIEW PLANT STOCK AT NURSERY PRIOR TO SHIPMENT TO SITE. CONSULTANT RESERVES RIGHT TO REJECT STOCK ON SITE WHEN INCONSISTENT FROM NURSERY SAMPLE STOCK. ONE (1) WEEK NOTICE IS REQUIRED FOR NURSERY REVIEW.
 - PLANTS TO BE WELL-ESTABLISHED AND UNIFORM IN SIZE. ALL PLANTS TO CONFORM TO THE STANDARDS SPECIFIED IN THE LATEST EDITION OF THE CANADIAN LANDSCAPE AND NURSERY ASSOCIATION STANDARD.
 - GROWING MEDIUM AND DEPTH AS PER CONSTRUCTION DETAILS.
 - SUBMIT GROWING MEDIUM REPORT FOR REVIEW PRIOR TO ORDER OR INSTALLATION.
- MULCH:
 - TO BE COMPOSTED BARK, BROWN (NOT RED) IN COLOUR.
 - DEPTH OF MULCH TO BE 75mm AFTER SETTLEMENT WITH COMPLETE COVERAGE.
 - PROVIDE CONTINUOUS MULCH FOR SHRUB AND GROUNDCOVER BEDS SO THAT PLANTS HAVE 100% COMPLETE COVERAGE OF ROOT ZONES, COMPLETE FROM PLANT TO PLANT.
 - DO NOT BURY PLANTS WITH MULCH. KEEP MULCH AWAY FROM SHRUB STEMS AND TREE TRUNKS.
- LANDSCAPE ESTABLISHMENT MAINTENANCE AND WATERING TO TOTAL COMPLETION AS PER CANADIAN LANDSCAPE STANDARD.
- WARRANTY: THIS PROJECT REQUIRES A ONE YEAR WARRANTY ON ALL SOFTSCAPE WORK.



2 SHRUB PLANTING DETAIL
L01 SECTION/PLAN

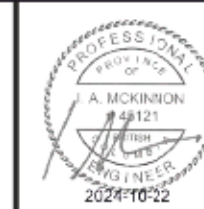
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PLOT DATE: October 1, 2024

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
A	ISSUED FOR REGULATORY APPROVAL	2023.12.13	AA	IM
B	DETAILED DESIGN	2024.02.16	AA	IM
C	ISSUED FOR DISCUSSION	2024.04.08	AA	IM
D	ISSUED FOR PRE-TENDER	2024.10.01	AG	IM



LITTLE RIVER PEDESTRIAN CROSSING
PLANTING PLAN AND DETAIL



1051 Vancouver St. Victoria, BC V8V 3K3
T: (250)361-3230 F: (250)361-3756

ISSUED FOR TENDER

DESIGN NO.

33549

SCALE	1:250	CREATION DATE	2023/03/01	DWG. NO.
DRAWN BY	AA	DESIGN BY	AA	21
CHECKED BY	KJ	APPROVED BY	IM	21
				REV. E

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